EUMETSAT

User Services Interface: User Manual for the On-Line Archive Java Application

DRAFT DOCUMENT

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1 INTRODUCTION

This document describes the new web interface for end users to access the Unified Meteorological Archive and Retrieval Facility (U-MARF), located at EUMETSAT.

The interface is a Java Application which runs on the User's local machine. Hereafter the abbreviation **USI** is used to refer to the application standing for User Services Interface. Prior to the availability of the USI, the use of the On-Line archive has been via a set of dynamically served html pages described by the "EUMETSAT Archive User Guide" [RD-1].

Both services will be kept available until further notice.

1.1 Purpose and Scope

This document provides an overview of the USI and also a number of procedural steps defining how to drive the application. The procedures are encapsulated in tables adopting the following form:

Step	**Action**	**Result**
1	Operation to be performed, button to be clicked/field to be completed	Description of change in the application (if any).
2	Further steps	
…		
N	Last step completing the procedure.	

A given step may be a mandatory action to achieve a specific purpose or one of many options available in the procedure. The tables are simplified by providing the result of each optional step and not presenting all the different options, results and further options in a tree-like structure nor flow-chart.

1.2 Document Structure

This guide and instruction document is broken down into the following sections:

Introduction This introduction
Bare Essentials How to run the application and get started
Auxiliary Functions User registration, access and information services
Query and Order Guide to the main search and delivery functions of the interface
Shopping Trolley How to prepare products and select media type for each order
Order Follow Up How to keep track of orders in process
Specific Product Order Description of the direct, bulk and standing order mechanisms.

1.3 Reference Documents

RD-1	EUM/OPS/USR/05/1128	EUMETSAT Archive User Guide http://archive.eumetsat.org/en/documents/umarfUserGuide.pdf

2 BARE ESSENTIALS

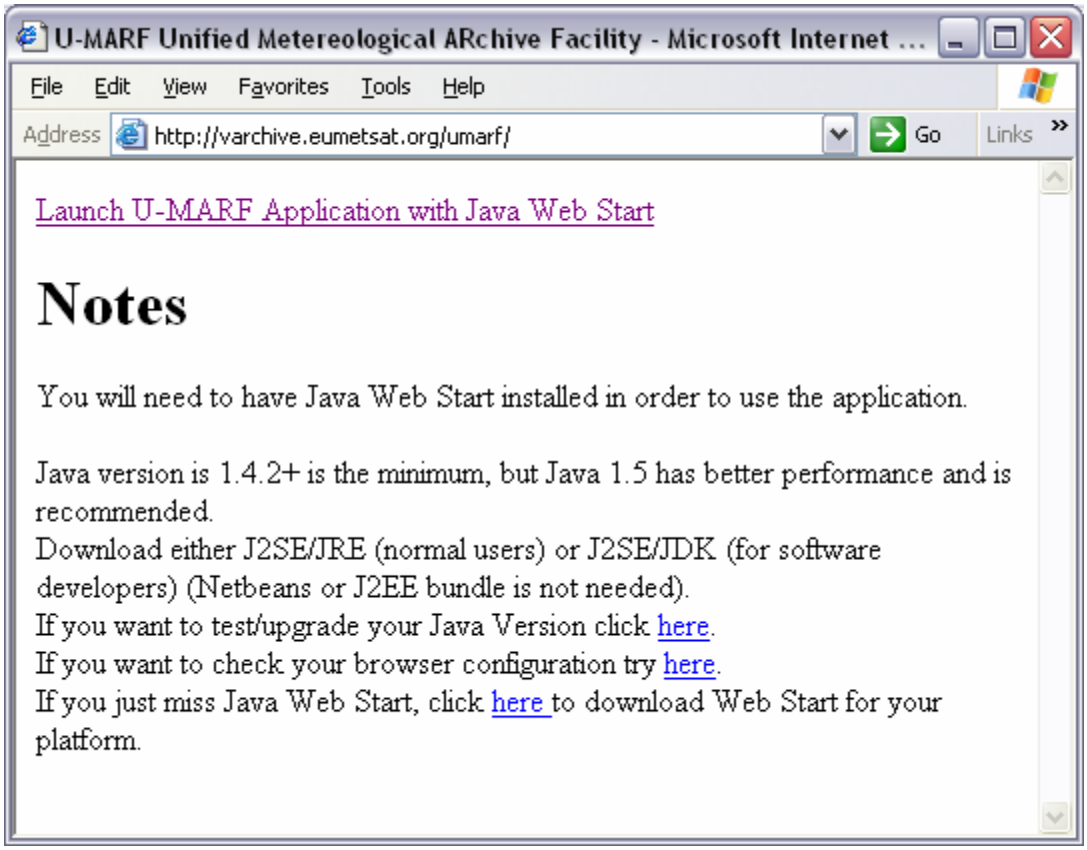
2.1 Getting started

The USI may be accessed directly via the URL:

http://varchive.eumetsat.org/umarf (TBC)

or by visiting the EUMETSAT internet pages at http://www.eumetsat.int and following the links: "ACCESS TO DATA" > "ARCHIVE SERVICE" > "ON-LINE ORDERING" > "ARCHIVE ON-LINE ORDERING JAVA LINK (TBD)"

Both routes will deliver an application launch window as illustrated below.


U-MARF Unified Metereological ARchive Facility - Microsoft Internet ...
File Edit View Favorites Tools Help
Address http://varchive.eumetsat.org/umarf/
Go
Links
Launch U-MARF Application with Java Web Start
Notes
You will need to have Java Web Start installed in order to use the application.
Java version is 1.4.2+ is the minimum, but Java 1.5 has better performance and is recommended.
Download either J2SE/JRE (normal users) or J2SE/JDK (for software developers) (Netbeans or J2EE bundle is not needed).
If you want to test/upgrade your Java Version click here.
If you want to check your browser configuration try here.
If you just miss Java Web Start, click here to download Web Start for your platform.

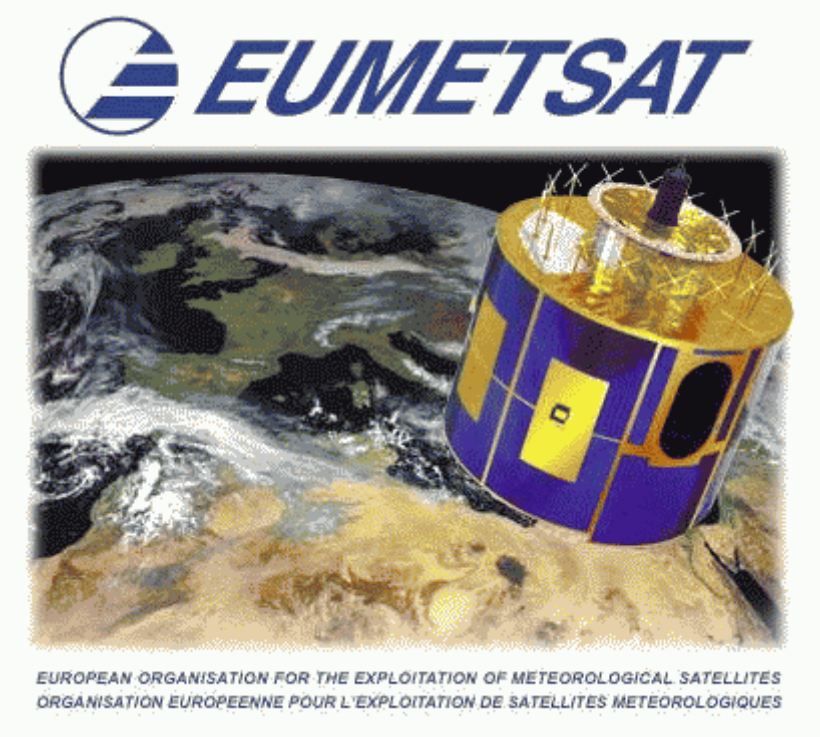
Launch page for the U-MARF web- interface.

The web interface comprises a Java Application which will download and run directly on the user machine, (otherwise known as the Client machine). To run the application "Java Web Start" must be installed on the local machine.

Instructions and links on how to install "Java Web Start" are included on the launch page. Please refer to this page since here is where the installation instructions will be kept up to date.

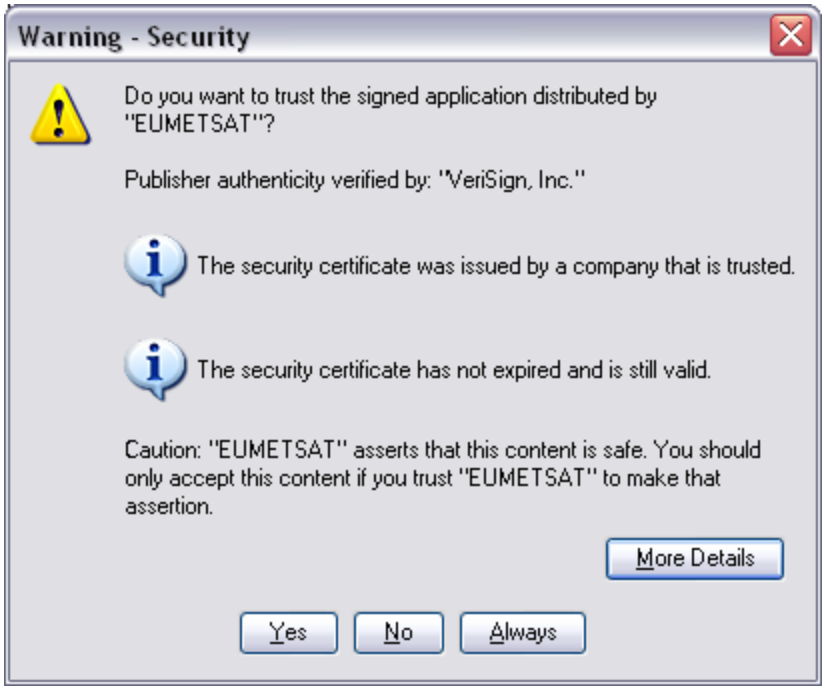
Provided “Java Web Start” is installed following the link “Launch U-MARF Application with Java Web Start” will result in Java Web Start to download the necessary files from the U-MARF web servers and then run the USI.

Initially a splash screen will appear with a EUMETSAT graphic.


EUMETSAT
EUROPEAN ORGANISATION FOR THE EXPLOITATION OF METEOROLOGICAL SATELLITES
ORGANISATION EUROPEENNE POUR L'EXPLOITATION DE SATELLITES METEOROLOGIQUES

EUMETSAT Splash screen

Following this a security warning will appear which both need to be acknowledged with “Yes” in order for the final USI to be run.


Warning - Security
Do you want to trust the signed application distributed by "EUMETSAT"?
Publisher authenticity verified by: "VeriSign, Inc."
The security certificate was issued by a company that is trusted.
The security certificate has not expired and is still valid.
Caution: "EUMETSAT" asserts that this content is safe. You should only accept this content if you trust "EUMETSAT" to make that assertion.
More Details
Yes
No
Always

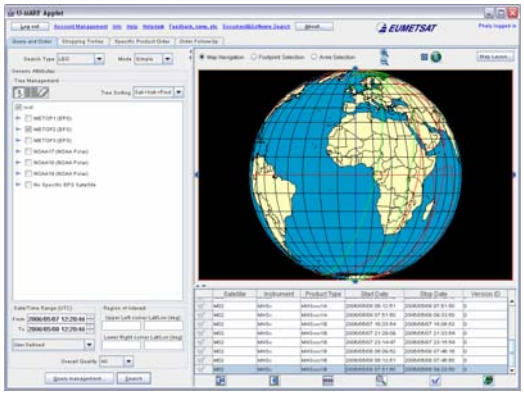
Security warning requesting trust of the application certificate.

Warning - Security
Do you want to accept the certificate from web site "varchive.eumetsat.org" for the purpose of exchanging encrypted information?
Publisher authenticity can not be verified.
The security certificate was issued by a company that is not trusted.
The security certificate has expired or is not yet valid.
More Details
Yes
No
Always

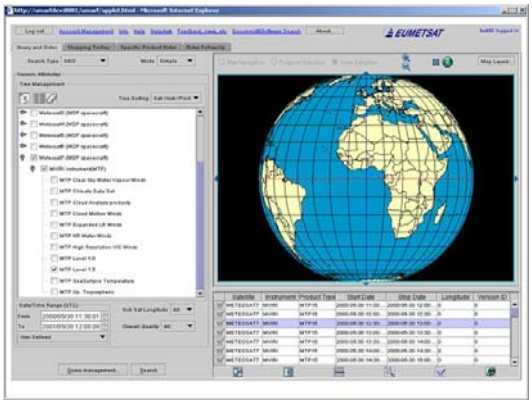
Security warning requesting acceptance of the application certificate.

The first time the application may take a while to start. A progress bar will be visible to indicate that something is happening. On subsequent use the components used to run the application may already be locally cached and starting the application will be quicker. When updates occur in the client software, Java Web Start will automatically download the updates on the next start up.

Originally the application was built as an “applet”, which is a Java application run from within an internet browser. However, the application is no-longer an “applet” since it runs as an independent Java application on the client machine and is launched and managed by “Java Web Start”. Notwithstanding this, some documentation relating to the application will still refer to the application as an “Applet” (including many screenshots within this document) where the Java Application appears imbedded in a Web Browser. There is a small cosmetic difference in the appearance of the screenshots as compared to the actual Java Application.



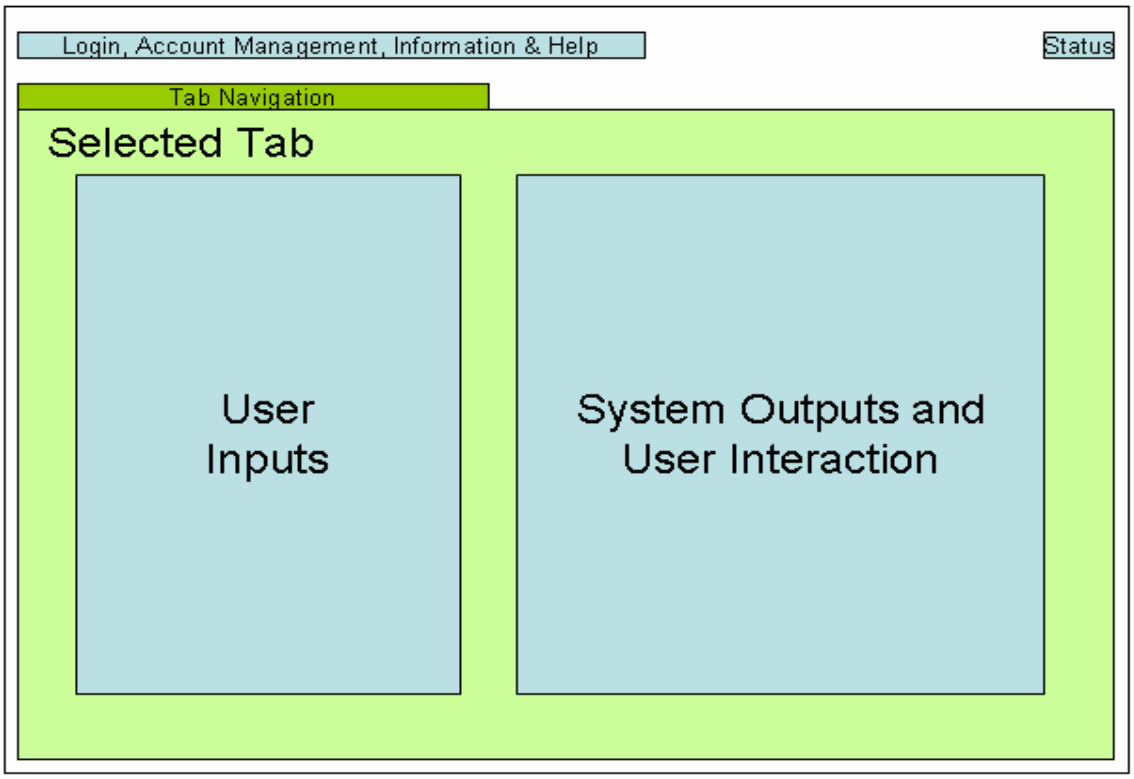
Current Java Application (LEO Example)



Historic Screenshot embedded in a browse (NB GEO Example)

2.2 General Navigation

In a schematic view the USI can be broken down into the following large scale components.



Schematic of the USI layout

Tab Navigation Selected Tab	The main functions of the interface are accessed via different tabs. These comprise: **Query & Order** **Shopping Trolley** **Specific Product order** **Order Follow Up**

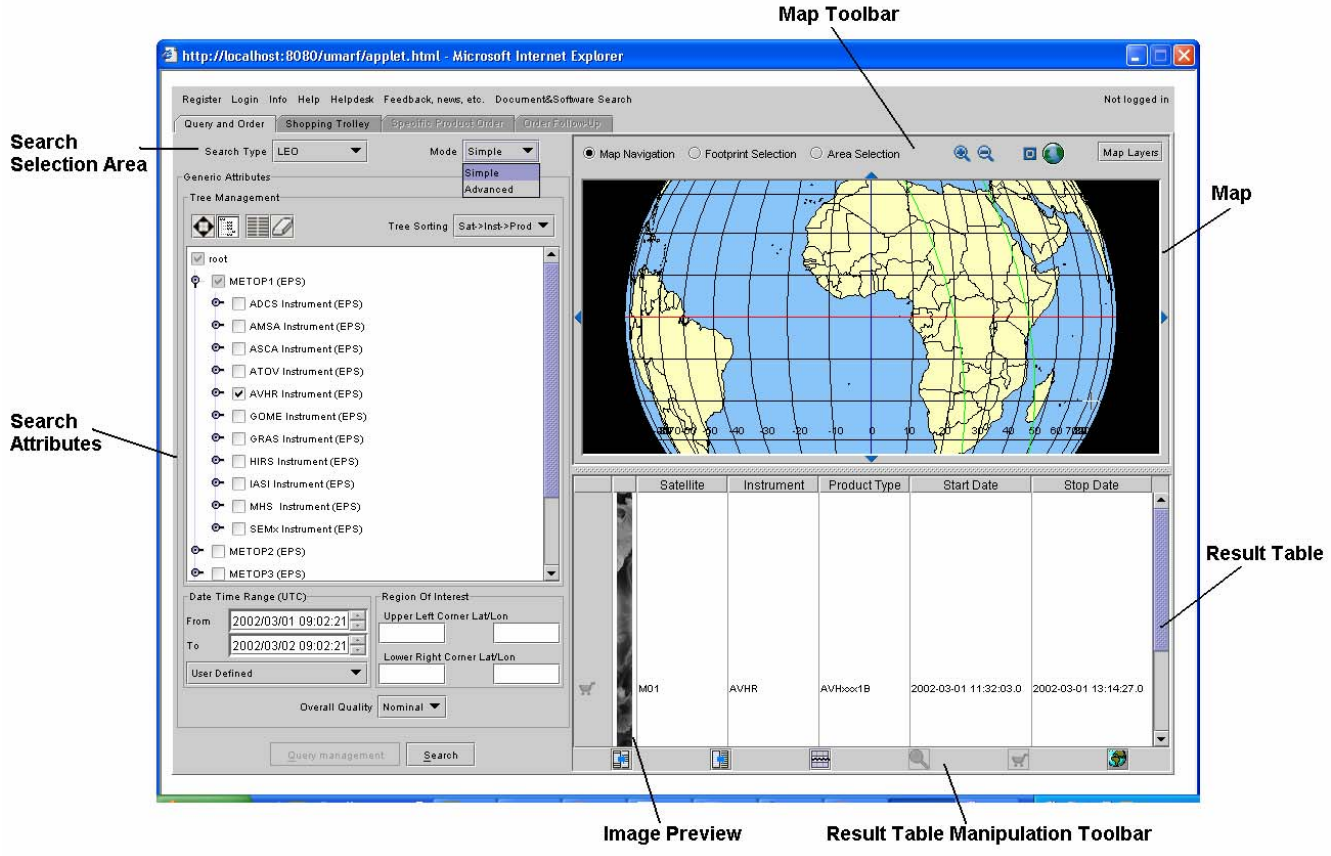
Login, Account Management, Information & Help	In addition to these main tasks a set of **AUXILIARY FUNCTIONALITIES** of the User Services are provided in the tool bar at the top of the main USV window, they are: **Registration Login/LogoutUser; Account Management; Info; Help; Helpdesk; Feedback; News, etc**; **Document&Software Search**.

Status	Indicator if a User is logged in or not. Orders can only be placed for registered and logged in users.

The layout of each tab generally reserves the left had side of the window for the selection of items (e.g. product type, order number) and input of values (time range selection, delivery format) and the right hand side gives feedback to the user, e.g. list of query results. Constraint imposed by all the necessary functions which have to be present in the available space lead to some mixing of this general paradigm.

On start-up the USI presents the following window with the "Query and Order" tab displayed by default.

The Query and Order tab (as illustrated below) gives read access to the holdings of the U-MARF catalogue. For a given product type (or, as circumstances permit, a set of products) a user may specify a time range of interest, a geographic region and a set of other characteristics (e.g. quality, presence of browse image) and find all the products in the archive matching the User's specification of interest. The query is entered in the left hand side of the tab and the findings are posted in the Result's Table (bottom right hand area). Vertical and horizontal partitions may be moved to alter the relative size of these areas on the tab as best suits the User's need.



Query and Order Tab: Structural Elements

Every user is associated with a single or a set of access groups. Of all the possible products which match a query, the associated group privileges will control the final set of results delivered. For example an “internal group” may have access to commissioning data and all versions of a products corresponding to different product processing algorithms. In general, a group for “external users” will focus on providing operational data which has been processed using the most up-to-date and quality effective algorithm. Group privileges may also effect which query fields are available, e.g. the specific algorithm version used may only be available to the group of algorithm developers and the option is unavailable, “greyed out” for other users.

If a user is registered (registration may be achieved through the dialogue along the top edge of the interface) and logged in (check status in top right hand field of the interface), any set of the query results may be placed in the virtual shopping trolley by selecting the item in the list and then clicking the Shopping Trolley icon (bottom right panel).

Selecting the next tab, Shopping Trolley, will display the contents of the shopping trolley. In the shopping trolley the format and delivery media of each item may be selected and items can also be discarded before the final order is submitted and acknowledged. The User then only need wait for the order to be processed and delivered through electronic means or on a physical medium in the post.

This manual documents each of the tabs and underlying functionality.

2.3 Why has the on-line interface changed?

The original On-Line Archive relied on a set of html pages being dynamically served by the U-MARF machines. The User needs to move from one page to another to make the query, define orders and investigate product details (see RD-1).

In the USI the majority of functions are rolled into the same interface. The use of tabs allows the user to navigate between different phases of an order. In addition, on each tab there are a number of drop downs which allow the theme of each tab to be dramatically changed, e.g. by changing from a query for Geostationary (GEO) data to Low Earth Orbit (LEO) data.

The major driver for the development of the USI is the spatial characteristics of Low Earth Orbit data such as derived from the MetOp and NOAA satellites. Geostationary data typically comprises full Earth disc images with the sub-satellite longitude often being enough to act as a geo-spatial index. The geo-location of a particular LEO product varies with time, the satellite only repeating the same ground track after a large number of orbits (i.e. several hundred). To aid the display of LEO products an interactive Map is included in the USI upon which the total extent of a product and/or the footprint of the satellite is displayed as a proxy for the product coverage.

The Map is visible on all Query and Order tabs but it is in fact only enabled for footprint display and geographic region specification in the LEO, Satellite Application Facility and Multimission Product Type searches.

3 AUXILIARY FUNCTIONS

The auxiliary functionalities are accessed by the top menu bar in the USI. A mouse click on each of the blue items will cause a new browser window to pop up, displaying an HTML page appropriate to the function. The "Log in/out" and "About" functions buttons spawn specific USI pop-ups.

If the user is not logged in, the first button is set to the function "Log in…"

The Auxiliary toolbar when user not logged in

If the user is logged in, the option to "Log out" is present and "Register" is replaced with "Account Management":

The Auxiliary toolbar when user logged in

3.1 Register

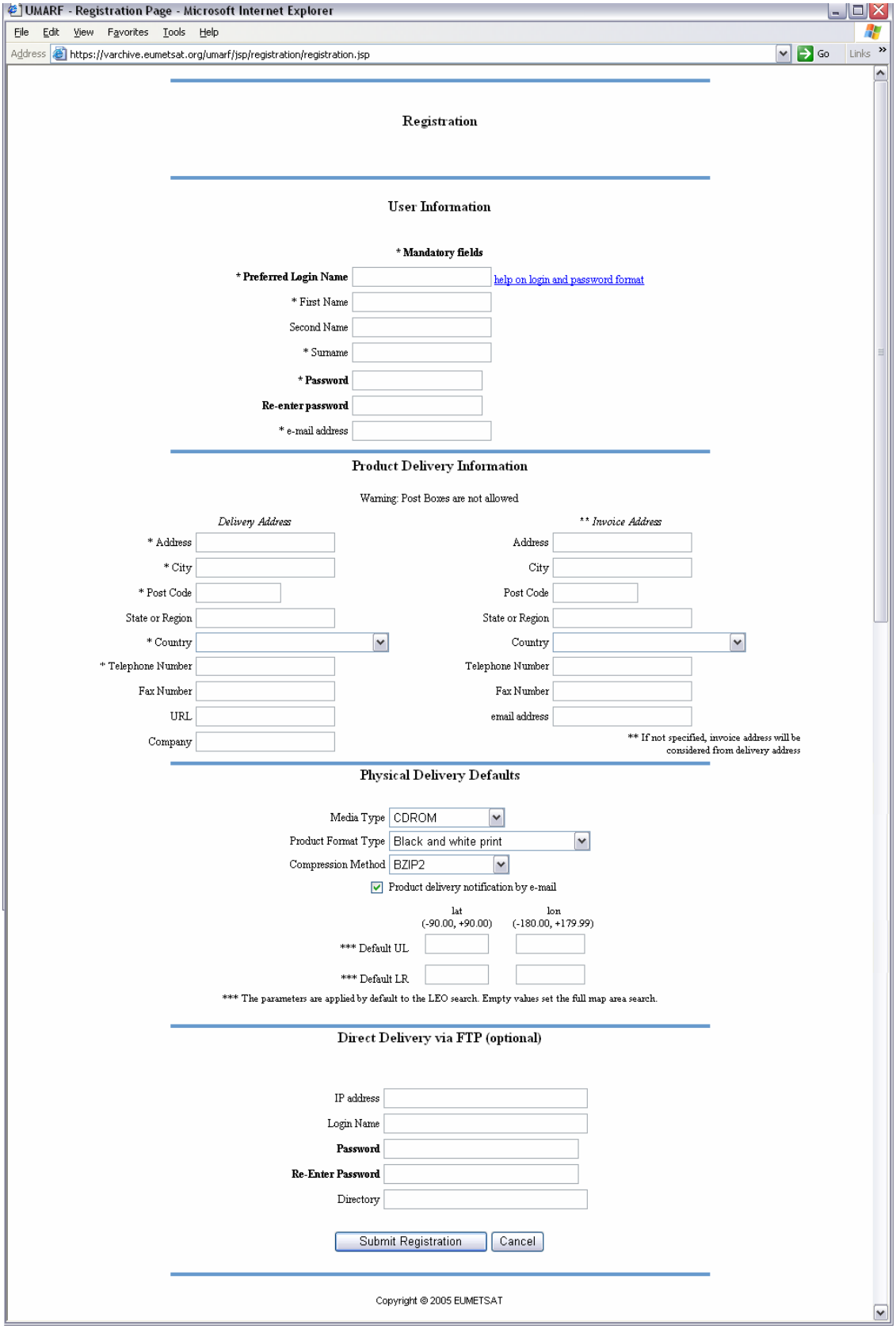
The registration page is displayed in a new browser window illustrated below. To register as a U-MARF User it is necessary to provide name and address details, to select a Login Name and a Password, and provide separate delivery and invoice addresses if appropriate. Default order options can be specified (e.g. setting a preference to have all data ordered on CD) as well as configuring the capability to have data transferred directly by ftp to the user's local machine.

Fields which are marked with a single asterisk "*" are mandatory. These must be filled in for a successful registration.

Passwords and Login names are subject to the following rules

The login name must be between 5 and 8 characters in length;
Only letters and/or digits and _ (underscore) should be used.
To submit a correct password apply the following rules:
The password must be more than 5 characters in length;
Only letters and/or digits should be used.

After the first registration it is possible to update the registration details with the "Account Management" link. Please note that after each update the User is logged out.



Registration page

3.2 Submitting a new user registration

Step	Action	Result
0	Click on “Register”.	The Registration Window is openened.
1	Edit at least all mandatory fields	
2	Click on "Submit" button	A new window with a success/fault message is displayed
3	Click on "Cancel" button	Registration window is closed

3.3 Logging in

Clicking on “Login” in the Auxiliary function menu bar leads to the login page displayed in a new window:

From this page it is possible to also access the registration page as described above.

Step	Action	Result
1	Click on the "Log In" button	The Login window is displayed.
2	Click on "Continue unregistered"	The Login window is closed and the focus returns to the USI and navigation may continue as an anonymous user.
3	If user is registered, insert User ID and Password.	
2	Click on "OK" button	The user is logged in. The Auxiliary Functions Menu Bar is updated with "Logout" and "Account Management"

Step	Action	Result
		buttons.
3	Click on "Close" button	The login window is closed

3.4 Logging out

Step	Action	Result
1	Click on "Logout" button	An information dialog appears, notifying that the user will be logged out.
2	Click on "OK"	The user is logged out.
3	Click on "Cancel"	The information dialog is closed

Logout Window Information Dialog

MULTIPLE SESSIONS NOT SUPPORTED: the U-MARF only allows a single to user to have one active login session through the USI at a time. If a second login is made, e.g. from a different local machine, the User is warned by a pop-out out that the other active session will be disconnected. However, the disconnected session will still appear as a logged in session until the session is used to send information to the U-MARF server. The disconnected session will allow a query to be made and for the final product ordering details to be set. When an attempt is made to complete the order, the order will fail and the status information will only then change to logged out. It is recommended to always perform an explicit log out after each session.

3.5 Account Management

The account management is available only if the user is logged. The account management page is displayed in a new browser window. Its functionality includes:

- Changing passwords (that force to logout user during modification)
- Editing/updating the delivery and invoicing addresses (and other contact details)
- Specifying preferences for delivery media and format

3.5.1 Open account management

Step	Action	Result

1	Click on "Account Management" button	The information dialog appears, notifying that the user will be logged out in order to modify the account.
2	Click on "Cancel" in the information dialog	The information dialog is closed
3	Click on "OK" in the information dialog	The user is logged out. The account management window is displayed.

Account Management Dialog

3.5.2 Submitting an account modification

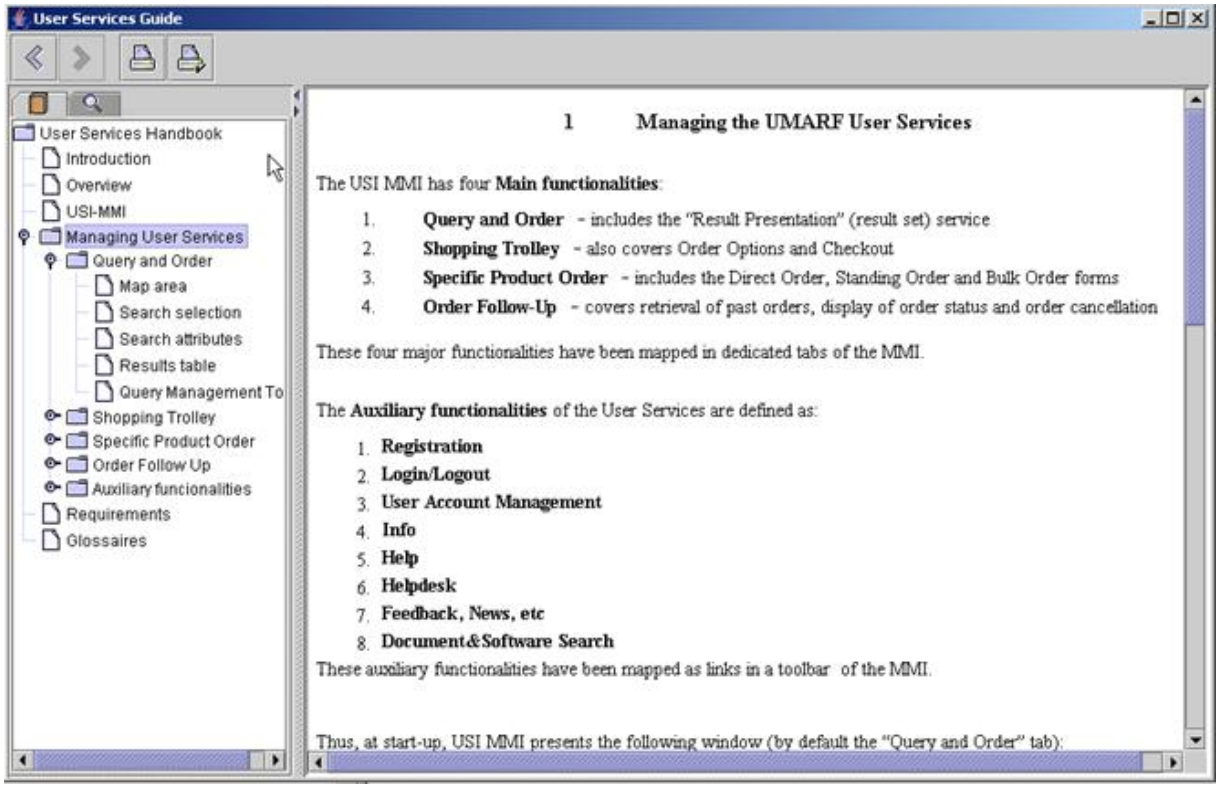
Step	Action	Result
1	Change editable fields	
2	Click on "Submit Account Modified" button	A new window with a success/fault message is displayed
3	Click on "Cancel" button	Account Management window is closed

3.6 Info

Service currently not implemented: documentation to be defined. It is expected to contain links to “Product Guides” and “Product Information”.

3.7 Help

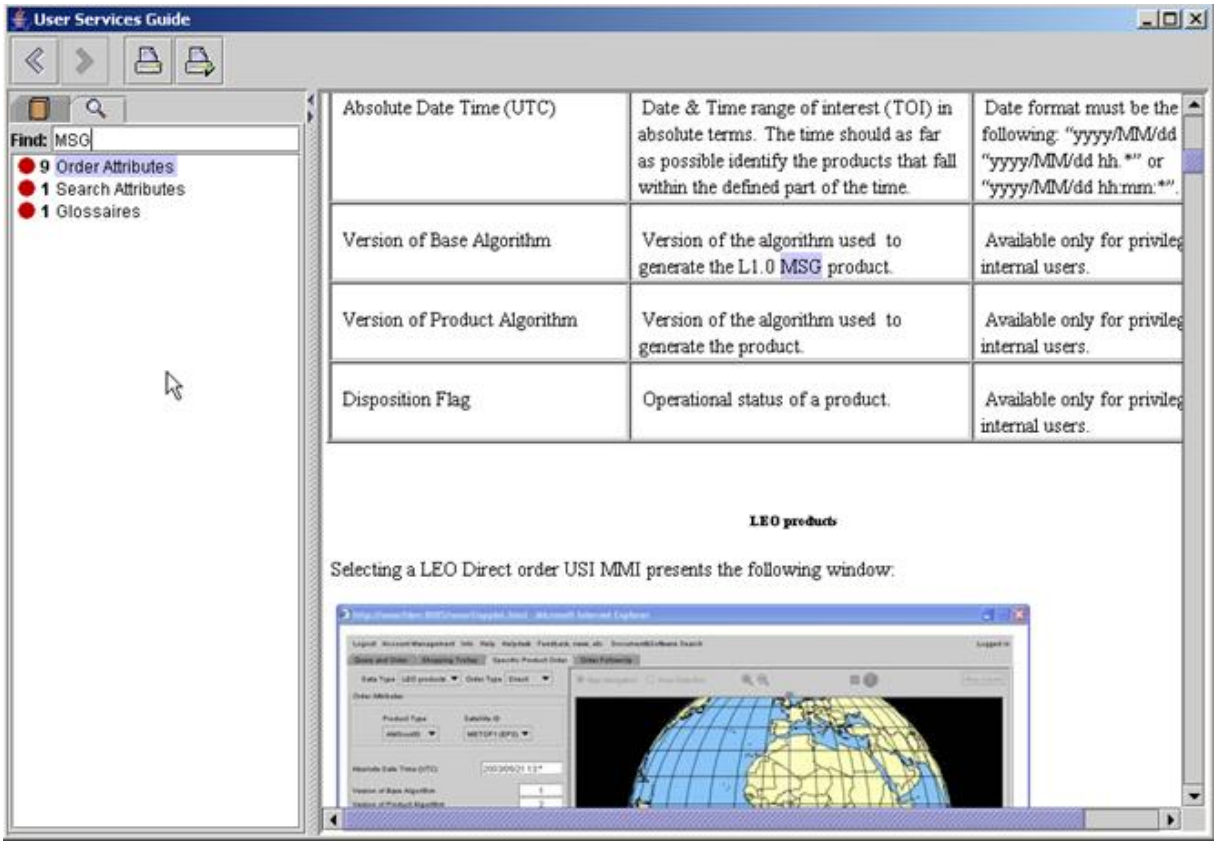
The online help is displayed in a new window. It comprises a navigation pane, a content pane and a toolbar. The navigation pane contains a Table of Contents (TOC), from which the user can select the topic of interest, and a full-text search field that can be edited to retrieve the topics that contains the corresponding search words. The content pane contains information sensitive to the current context of the USI, i.e. if the Shopping Trolley tab is open a click on the Help button will open the Help Pages in the Shopping Trolley section. The toolbar allows page navigation and a printing option for the current selection.


User Services Guide
User Services Handbook
Introduction
Overview
USI-MMI
Managing User Services
Query and Order
Map area
Search selection
Search attributes
Results table
Query Management To
Shopping Trolley
Specific Product Order
Order Follow Up
Auxiliary funcionalities
Requirements
Glossaires
1 Managing the UMARF User Services
The USI MMI has four Main functionalities:
1. Query and Order - includes the "Result Presentation" (result set) service
2. Shopping Trolley - also covers Order Options and Checkout
3. Specific Product Order - includes the Direct Order, Standing Order and Bulk Order forms
4. Order Follow-Up - covers retrieval of past orders, display of order status and order cancellation
These four major functionalities have been mapped in dedicated tabs of the MMI.
The Auxiliary functionalities of the User Services are defined as:
1. Registration
2. Login/Logout
3. User Account Management
4. Info
5. Help
6. Helpdesk
7. Feedback, News, etc
8. Document&Software Search
These auxiliary functionalities have been mapped as links in a toolbar of the MMI.
Thus, at start-up, USI MMI presents the following window (by default the "Query and Order" tab):

Help window

3.8 Help window

Step	Action	Result
1	Click on "Help" button from Query and Order tab *And similarly for other tabs …*	The Help window is displayed showing the Query and Order topic. *And similarly for other tabs …*
2	Click on button.	The navigation pane is switched to the full-text search pane
3	Insert a key word on the text-field area, then press Enter.	The navigation pane shows the search results, with first topic selected. The content pane shows the first topic with key words highlighted.


User Services Guide
Find: MSG
9 Order Attributes
1 Search Attributes
1 Glossaires
Absolute Date Time (UTC)
Date & Time range of interest (TOI) in absolute terms. The time should as far as possible identify the products that fall within the defined part of the time.
Date format must be the following: "yyyy/MM/dd "yyyy/MM/dd hh.*" or "yyyy/MM/dd hh:mm:*".
Version of Base Algorithm
Version of the algorithm used to generate the L1.0 MSG product.
Available only for privileg internal users.
Version of Product Algorithm
Version of the algorithm used to generate the product.
Available only for privileg internal users.
Disposition Flag
Operational status of a product.
Available only for privileg internal users.
LEO products
Selecting a LEO Direct order USI MMI presents the following window:

Help window - Full text search results

3.9 Helpdesk

Service currently not implemented: documentation to be defined. It is expected to contain links and contact information for the Archive Help-Desk and User Help-Desk.

3.10 Feedback, news, etc.

Service currently not implemented: documentation to be defined. It is expected to contain news items and options to email the Archive directly.

3.11 Document & Software Search

Service currently not implemented: documentation to be defined. Function under review.

4 QUERY AND ORDER

The Query and Order tab is the driving engine of the U-MARF User Services. It is open to registered and non-registered users alike and gives product search and inspection capabilities of the holdings in the U-MARF catalogue and archive.

There are five product groupings currently available to Query and Order. These are selected by a drop down menu (labelled **Search Type**) within the Query and Order tab. The behaviour of the tab adjusts automatically to accommodate the product characteristics of each grouping. When the grouping is the super set of all products (i.e. multi-mission tab) only a basic set of common search parameters are available.

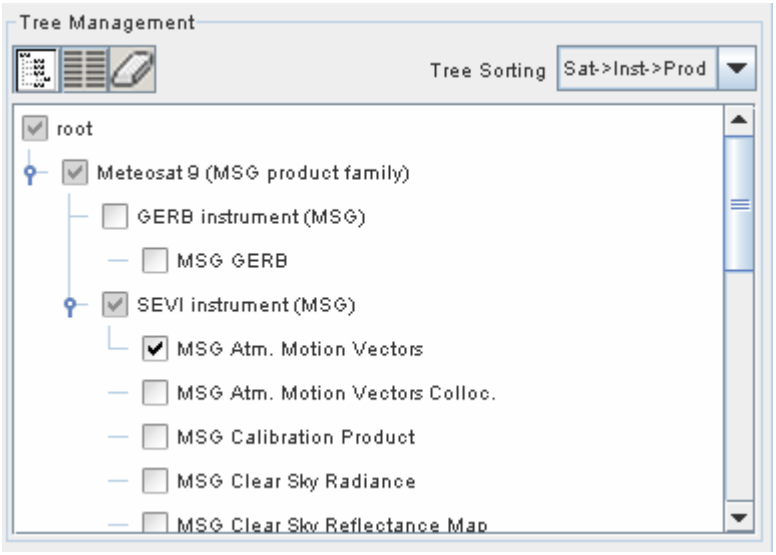
Product Group	Description
GEO	**GEO**stationary Satellite Data (e.g. METEOSAT satellite family)
LEO	**L**ow **E**arth **O**rbit Satellite Data (e.g. Metop and NOAA satellites)
Auxiliary Data	This is additional data used in the processing of LEO products from Level 0 raw data to Level 1 and above. (e.g. external calibration data) intended primarily for users requiring knowledge of the specific inputs used in the high-level data production, or who wish to reprocess their own data.
SAF	**S**atellite **A**pplication **F**acility (High Level Products based on GEO and/or LEO data generated at the specialised processing and development centres which make up the SAF network).
Multimission	All products (i.e. queries across the GEO, LEO and SAF groups).

Selection of items is achieved via a product search tree. Clicking on the “root” of the tree will select all items. Each branch will select a specific product group and a leaf will correspond to an individual item. How the tree is built is controlled by the User. The leaves may correspond to either, Products, Instruments or Satellites. The most “logical” order is perhaps Satellite branching into Instruments branching into Products (Sat>Inst>Prod). However, if a User is only interested in Level 1.5 SEVIRI imagery placing Products as the first branch will allow the search of all Level 1.5 SEVIRI data independent of the Satellite mission.

Currently “simple” LEO, GEO, SAF and Auxiliary searches only allow the selection of a single branch with all its sub-branches and leaves included. There is also an “advanced” mode for these searches where the search requires that only a single item (leaf) is selected. These constraints help to maintain the performance (time of result return) of queries. It is in

no way a real restriction since the User's shopping trolley may be used to incrementally store the result of a series of different queries and to build up any particular result set and assign it for delivery in the same order.

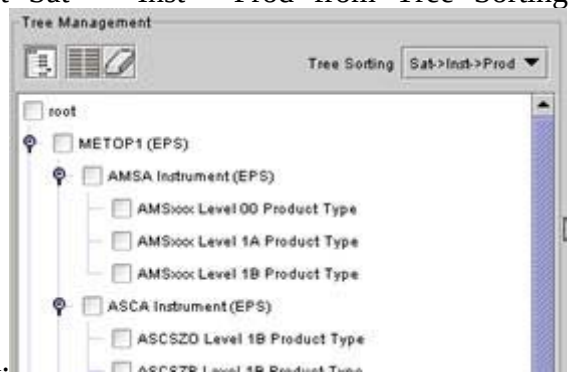
In Multi-mission search any branch or any sub-branch and any leaf from any branch may be selected allowing a simultaneous query on a broad range of data products.

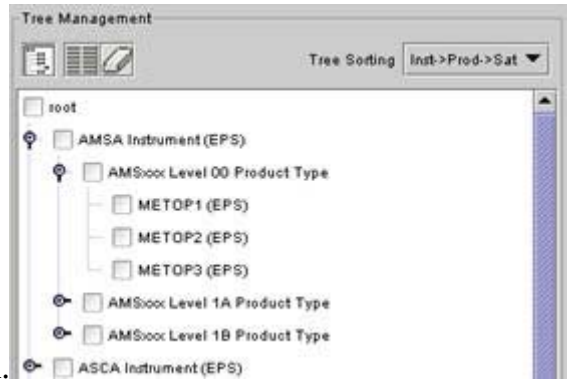
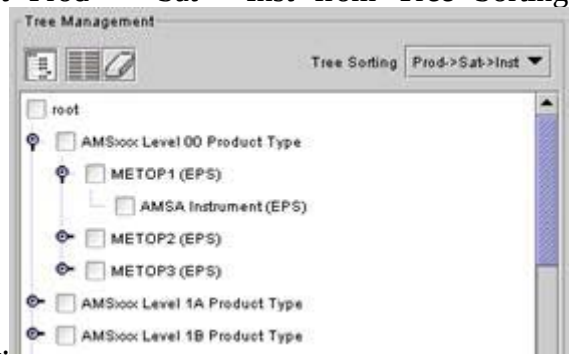


The Product Tree

4.1 Tree Management

Depending on the Tree Sorting mode selected, the tree shows a list of searchable products sorted by Satellite, Product Type or Instrument.

Step	Action	Result
1	Select Sat -> Inst-> Prod from Tree Sorting menu.  Tree Management Tree Sorting Sat->Inst->Prod root METOP1 (EPS) AMSA Instrument (EPS) AMSxxx Level 00 Product Type AMSxxx Level 1A Product Type AMSxxx Level 1B Product Type ASCA Instrument (EPS) ASCSZO Level 1B Product Type	The Tree view is rearranged in order to show a list of satellites, relative instruments and searchable products for each instrument.
2	Select Inst -> Prod-> Sat from Tree Sorting	The Tree view is rearranged in order to show a list of instruments, searchable products for each instrument and source satellites for each product type.

	menu. 	
3	Select Prod -> Sat-> Inst from Tree Sorting menu. 	The Tree view is rearranged in order to show a list of products types, source satellites and instruments that generate this product.
4	Click on Expand/Collapse nodes button.	The tree nodes are expanded/collapsed.
5	Click on Show selected button	Only selected nodes are shown.
6	Click on Cancel button.	All selected nodes are cleared.

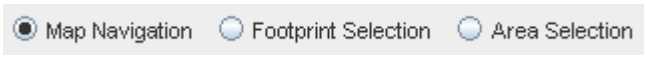
4.2 Map Area

The Map Area in the right-hand side of the tab:

- To define a geographical region of interest in a product search (LEO, SAF and Multimission)
- To show the area coverage (footprints) of the products found by a product search (LEO, SAF and Multimission)
- To define the spatial subsetting on GEO Standing orders
- To define the region of interest on LEO/SAF Standing orders

A Map Toolbar is used to interact with the map pane, comprising:

- a button to re-center the displayed map to the starting point
- a button to re-center and resize the displayed map

- a couple of buttons to zoom-in and zoom-out over the center of the displayed map
- * four little arrow-buttons to pan the map in the specified direction (*example at the North Pole is illuistrated)
- 

  a set of three radio buttons to change the mouse behaviour. Map navigation: clicking on the map will change the focus, Footprint Selection: highlights selected footprint, Area Selection: allows the mouse to draw a Region of Interest (Lat/Lon Box).

-

a button to manage the layers as they appear on the map.

The Layers panel window includes controls for the listed graphics layers.

FOOTPRINT: when the footprint layer is on all the footprints for a query result set will be plotted. If the search has returned 500+ products this may be a slow process. By default the footprint layer is turned off. But when clicking a product in the result table the corresponding footprint is shown on the map (effect of the “Footprint Selected” layer being turned on).

The Layer panel window allows you to turn on/off the layers and bring up their specific palette controls.

- Turn layer off/on.

- Turn layer palette (GUI) controls on. Button reflects if the palette is active, and the palette has a control button to hide itself.

- An example of a layer palette. This palette is for the Graticule layer, and it lets you modify the layer's behavior.

Map Area is disabled for GEO and Auxiliary Data search

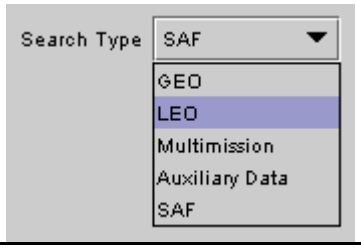
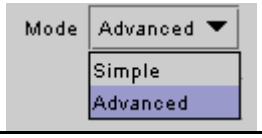
Step	Action	Result
1	Select LEO from Search type menu.	Map Area is enabled.
2	Set the Map navigation radio button. Click on a point on the map.	The map is re-centered with respect to the selected point.
3	Set the Map navigation radio button. Select an area on the map by drag&drop.	The action will cause a zoom in of the selected area.
4	Set the Area selection radio button. Select an area on the map by drag&drop.	A ROI is selected on the map and coordinates are set in the relative fields in the Search Attributes.
5	Set the Footprint selection radio button (this action it active only if a search has been submitted and the product found contains footprint). Select a displayed footprint in the map.	The product related to the selected footprint is highlighted in the results table.
6	Click on Zoom in button.	The action will cause a zoom in of the current image.
7	Click on Zoom out button.	The action will cause a zoom out of the current image.
8	Click on Center button.	The map is centered at the starting coordinates.
9	Click on Resize button.	The map is centered and resized.
10	Click on Map Layers button.	A new window appears containing a control panel to allow the user to switch on and off layers and to change specific attributes of each layer.
11	Click on the four little arrow-buttons.	The Left Hand and Right Hand buttons will rotate the map Westward and Eastward respectively. The Top and Bottom buttons

		will rotate the Earth Northward and Southward. It is not possible to use the up or down button to rotate beyond the Pole.

PLEASE NOTE: Regions Of Interest (ROI) are defined as rectangular regions in latitude and longitude. The projection used by the map is the stereographic projection. It is not possible to define a region of interest that, strictly speaking, includes the poles. Nevertheless the map will allow the user to select a region of interest close *ad libidum* to the poles the result will be a region that includes a sector all around the pole. Moreover if a ROI is not selected (no map area defined or coordinates text fields empty) the full map will be used as the geographical search criteria.

4.3 Search Selection

When the user selects a combination of Search Type and Mode, the tab modifies the content of the left panel in order to present appropriate options for selected combination.

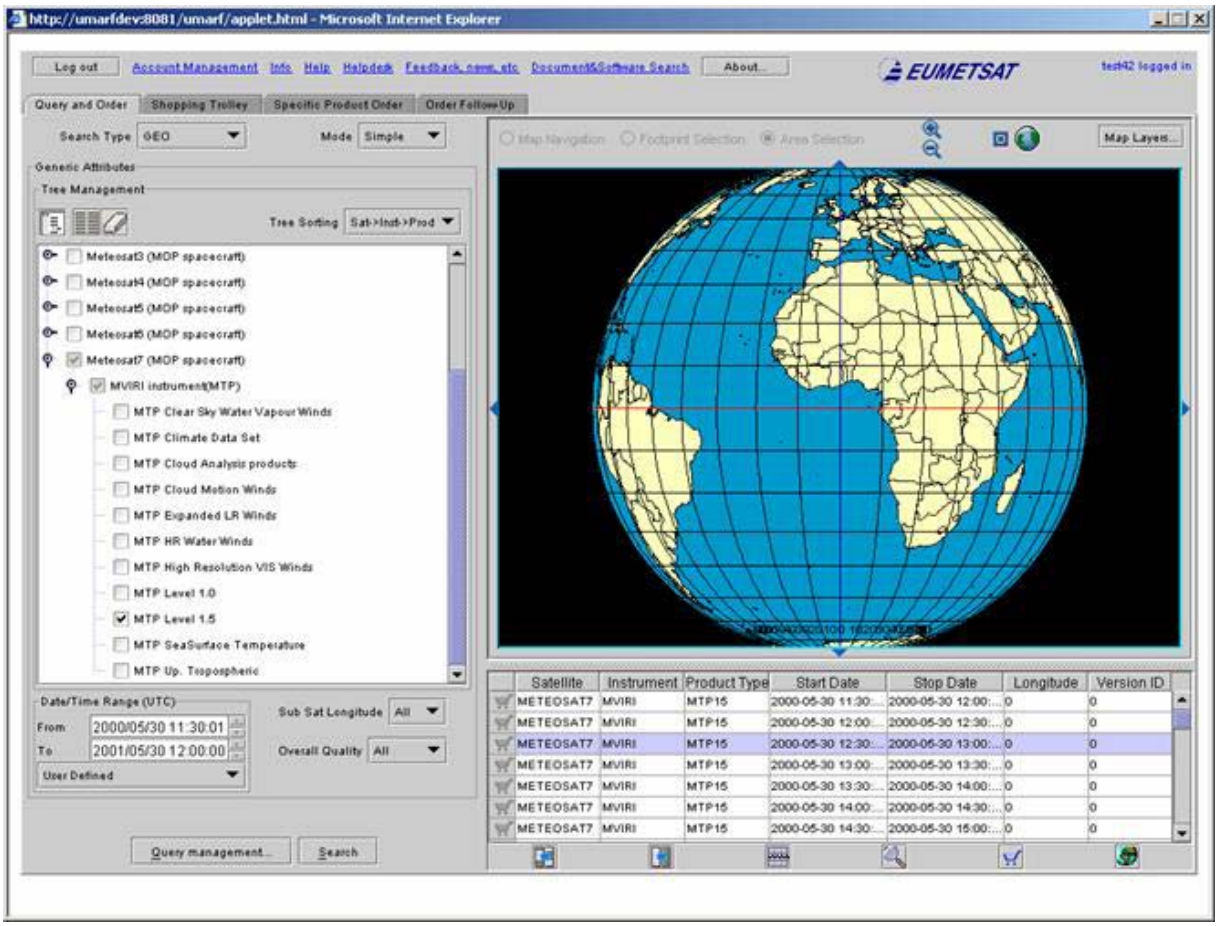
Step	Action	Result
1	Select a search type on the Search Type menu. 	The Tree is refreshed according to the selected search type. Generic search attributes are displayed (advanced attributes also, if advanced mode is currently selected)
2	Select a search mode in the Search Mode menu. 	The search attribute panel is refreshed according to the search mode selected. For all search types, simple search attributes are a subset of advanced search attributes.

Two search modes are available to the user: “Simple” and “Advanced”.

- The **“Simple”** mode allows the user to submit to the U-MARF database a query consisting of basic parameters such as “Product”, “Time Range”, “Quality”, and “Location”. The underlying catalogue design optimises searches on these paramters, so simple queries give faster results than an equivalent advanced query.
- The **“Advanced”** mode allows the user to submit to the U-MARF database a query consisting of the basic parameters plus possible selection of additional parameters in order to refine the data selection.

4.4 GEO Simple Mode

Selecting a GEO Simple search USI MMI presents the following window:



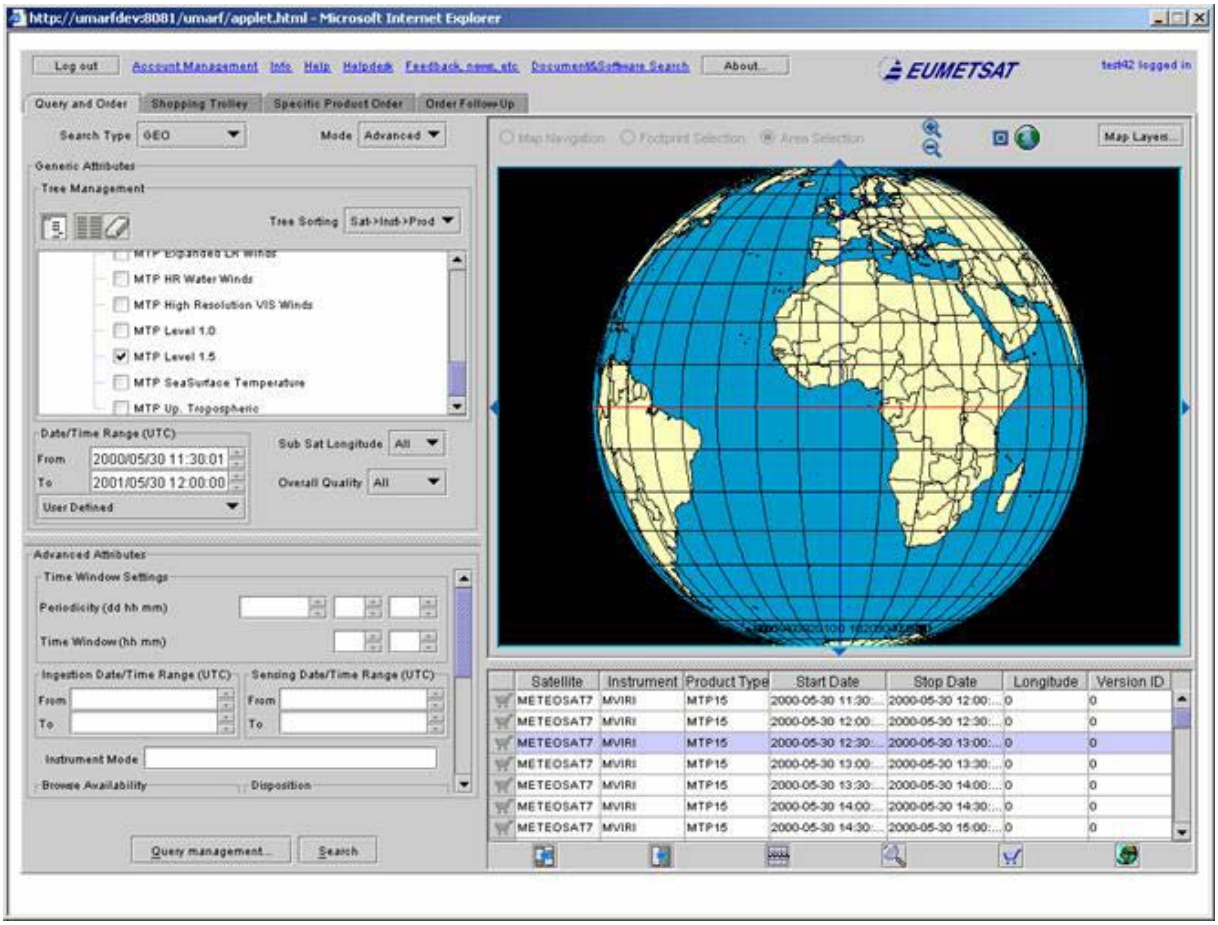
Query and Order GEO Simple Search

Attribute	Description	Notes
Date/Time Range (UTC)	Define the sensing Time range Of Interest (TOI) in UTC. A predefined set of time-range modes, expressed in relative "date&time", ranges. The modes are provided in the drop down menu directly underneath the time range window.	Date format must be the following: YYYY/MM/DD HH:mm:SS. This attribute is editable only in User Defined mode.
Sub Sat Longitude	Longitude of sub satellite point.	
Overall Quality	Overall quality of the product.	

QUALITY: if a product contains missing lines or degraded records its global quality flag will be set to NOK. However, there is still the likelihood of good quality data present in the product. In Advanced Mode some products allow the specification of a quality threshold to be applied to the query.

4.5 GEO Advanced Mode

Selecting a GEO Advanced search, the Advanced Attributes pane is displayed. The USI MMI presents the following window:



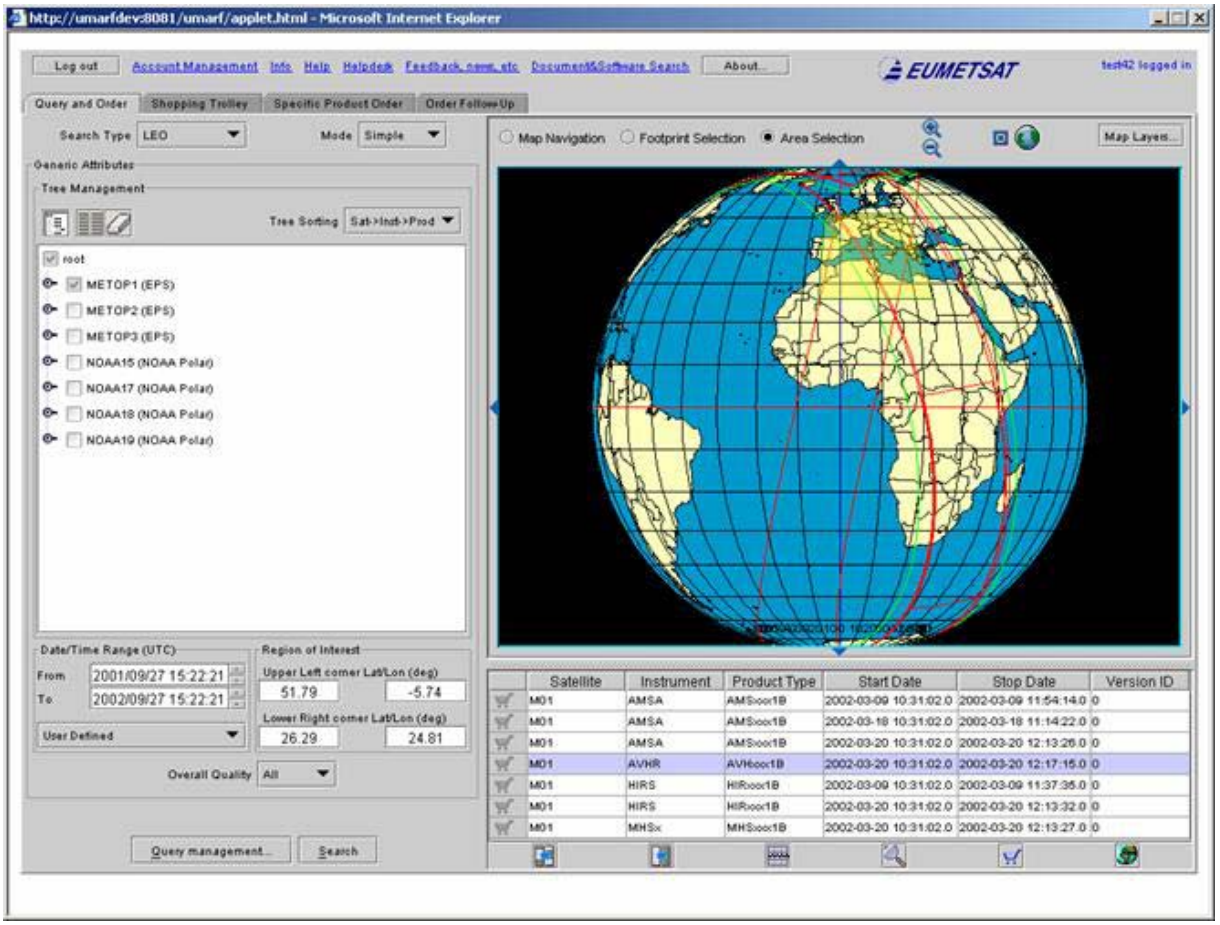
Query and Order GEO Advanced Search

The Advanced Attributes pane is filled with the following attributes (the pane is scrollable):

Attribute	Description	Notes
Periodicity (dd hh mm)	The time interval between two consecutive Time Windows expressed in Days, Hours, Minutes.	Time Window format must be the following: days, hours, minutes
Time Window (hh mm)	Duration of the time window.	Time Window format must be the following: hours, minutes
Ingestion Date/Time Range (UTC)	Date and Time of the availability of the product.	Date format must be the following:

Attribute	Description	Notes
		YYYY/MM/DD HH:mm:SS.
Sensing Date/Time Range (UTC)	Date & Time at acquisition start of the product.	Date format must be the following: YYYY/MM/DD HH:mm:SS.
Instrument Mode	Scanning mode of the Instrument.	Leave as default, blank to select all.
Base Algorithm Version	Version of the algorithm used to generate the L1.0 MSG product.	Available only for specific user groups.
Product Algorithm Version	Version of the algorithm used to generate the product.	Available only for specific user groups.
Missing Data Count	Maximum number of dropped lines.	Default is blank, equivalent to the maximum for any channel
Missing Data Percentage	Maximum percentage of dropped lines.	0 - 100. Default is blank, equivalent to 100%
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Browse File Availability	Existence of the browse file is mandatory or not.	Instrument or blank, default for all
Spectral Band IDs	Spectral bands for the specified product type.	Default is blank, returns all results

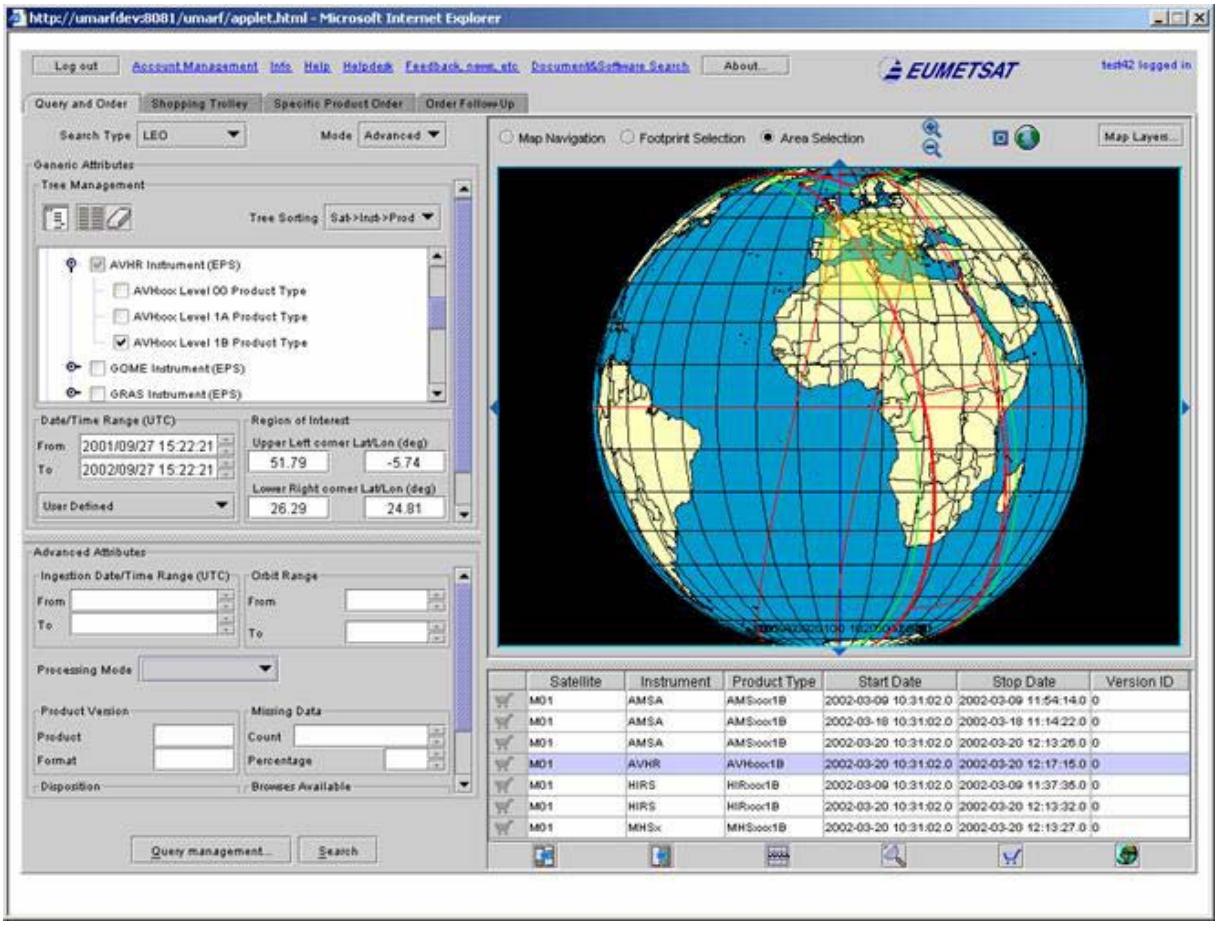
4.6 LEO Simple Mode



Query and Order LEO Simple Search

Attribute	Description	Notes
Date Time/Range (UTC)	Date & Time range of interest (TOI) in UTC. A predefined set of user friendly ranges expressed in relative “date&time” references is provided.	Date format must be the following: YYYY/MM/DD HH:mm:SS. This attribute is editable only in User Defined mode.
Region Of Interest	Upper Left and Lower Right co-ordinates of the region of interest. It can be filled manually or by using the Map tool as already described.	If the text field are left empty than the full globe will be used as search criteria
Overall Quality	Overall quality of the product.	

4.7 LEO Advanced Mode



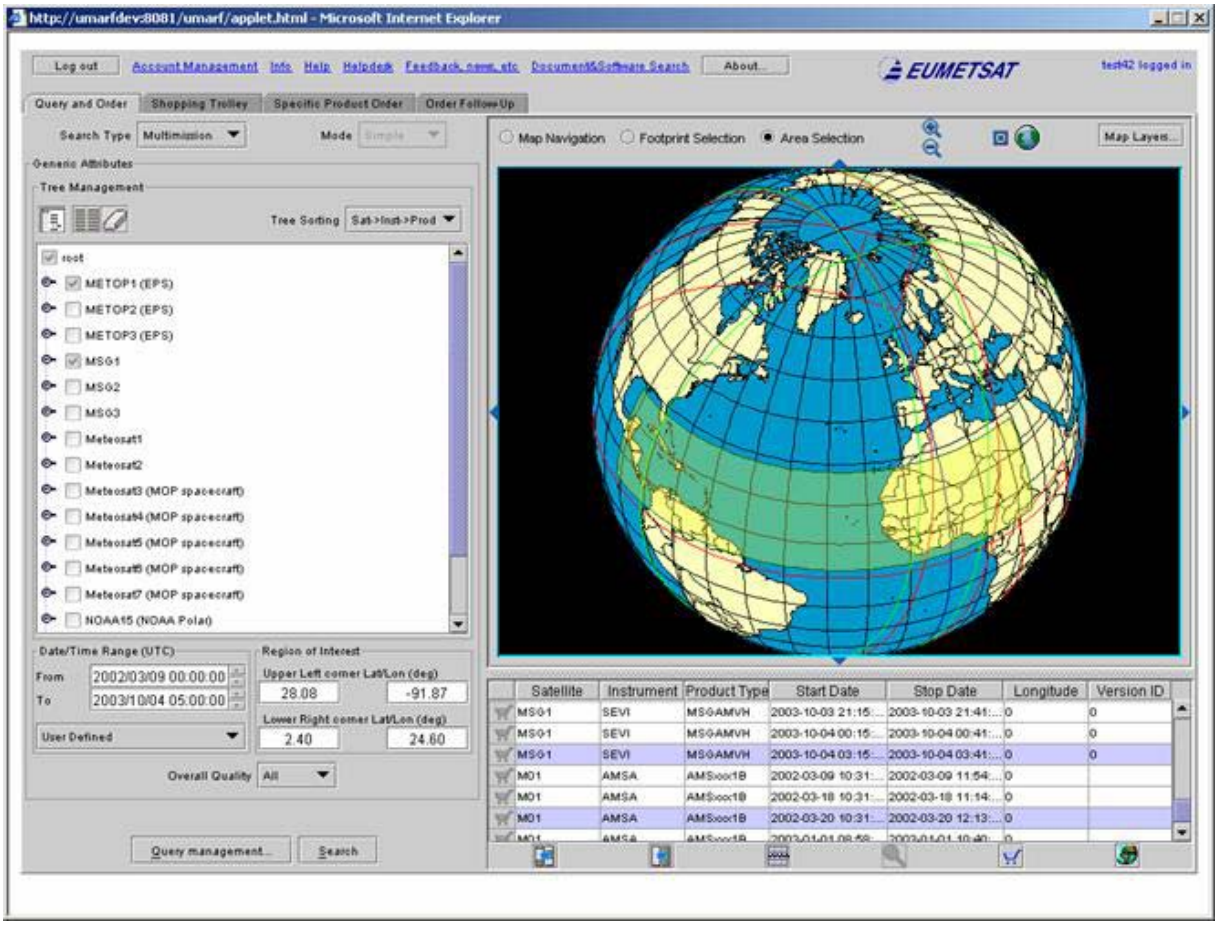
Query and Order LEO Advanced Search

The Advanced Attributes pane is filled with the following options (the pane is scrollable):

Attribute	Description	Notes
Ingestion Date/Time Range (UTC)	Date and Time of the availability of the product. A predefined set of user friendly ranges expressed in relative “date&time” references is provided.	Date format must be the following: YYYY/MM/DD HH:mm:SS.
Orbit range	Range of Orbits of interest.	
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.
Product Algorithm Version	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Missing Data Count	Maximum number of missing lines.	Default is blank, equivalent to the

Attribute	Description	Notes
		maximum for any channel
Missing Data Percentage	Maximum percentage of missing data.	0 - 100. Default is blank, equivalent to 100%
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Disposition Mode	Disposition mode applied for product generation.	Available only for specific user groups.
Browse/AVHRR File Availability	Existence of the browse/AVHRR file is mandatory or not.	

4.8 Multimission Simple Mode



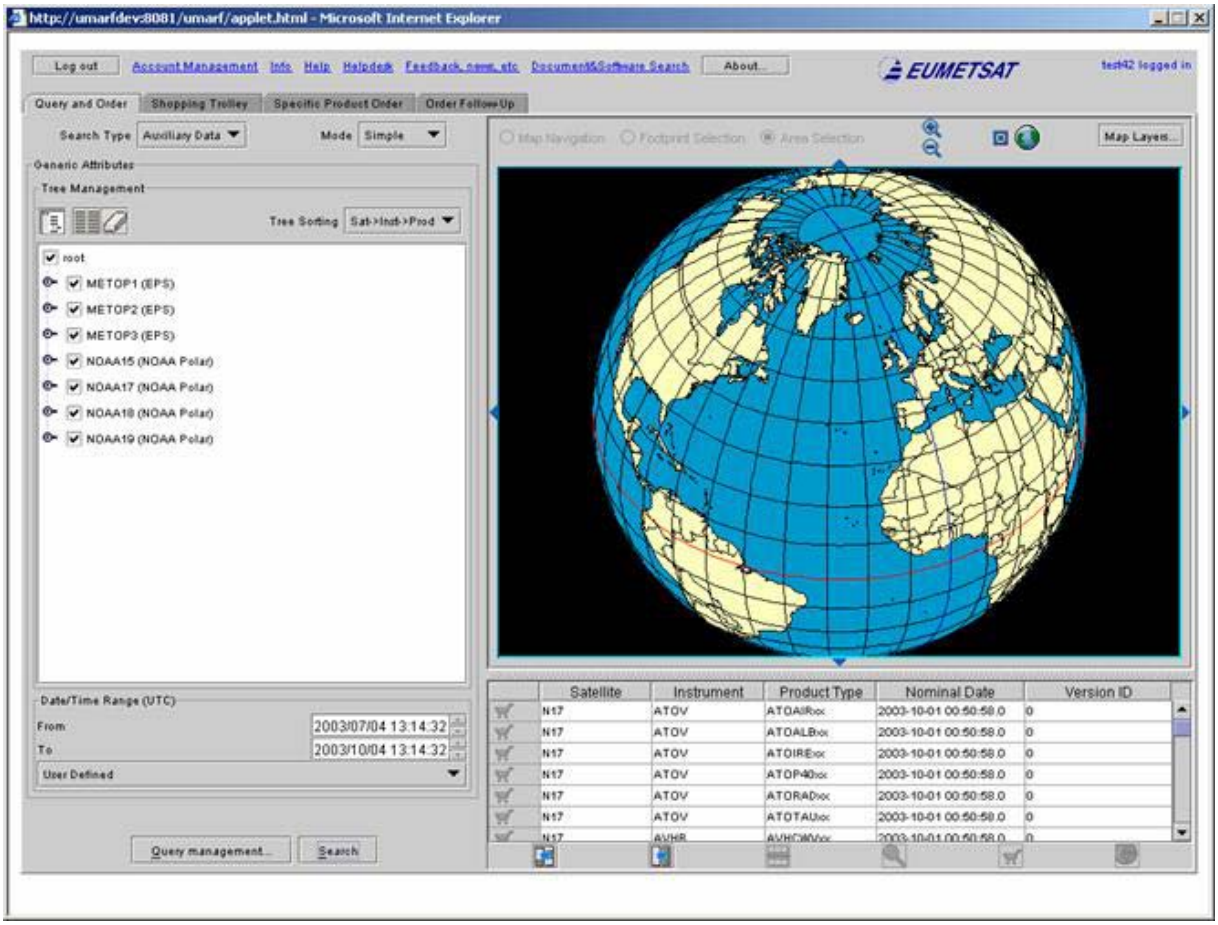
Query and Order Multimission Search

The Advanced mode is disabled for Multimission search.

Attribute	Description	Notes
Date/Time Range (UTC)	Date & Time range of interest (TOI) in UTC. A predefined set of user friendly	Date format must be the following: YYYY/MM/DD

Attribute	Description	Notes
	ranges expressed in relative date&time references is provided.	HH:mm:SS.
Region Of Interest	Upper Left and Lower Right coordinates of the region of interest. It can be filled manually or by using the Map tool as already described.	If the text fields are left empty than the full globe will be used as search criteria. In order to search for GEO products, only the ROI longitudes at the equator intersection are taken into account. If the GEO footprint intersects the ROI longitude range at the equator then the product will be retrieved.
Overall Quality	Overall quality of the product.	

4.9 Auxiliary Data Simple Mode

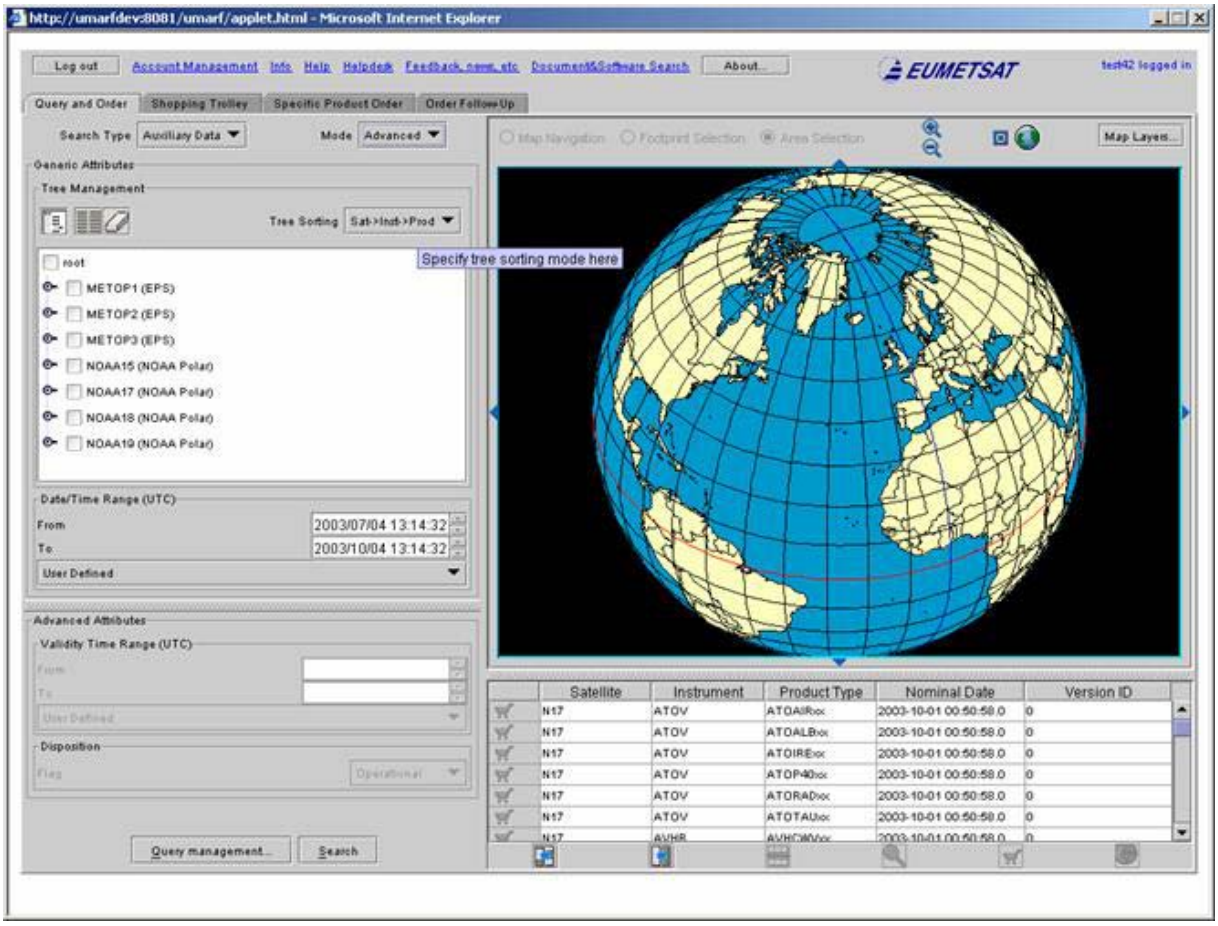


Query and Order Auxiliary Data Simple Search

Attribute	Description	Notes
Date/Time Range (UTC)	Date & Time range for creation date of the Auxiliary Data.	Date format must be the following: YYYY/MM/DD HH:mm:SS.

4.10 Auxiliary Data Advanced Mode

Selecting an Auxiliary Data Advanced search, the Advanced Attributes pane is displayed. The USI MMI presents the following window:



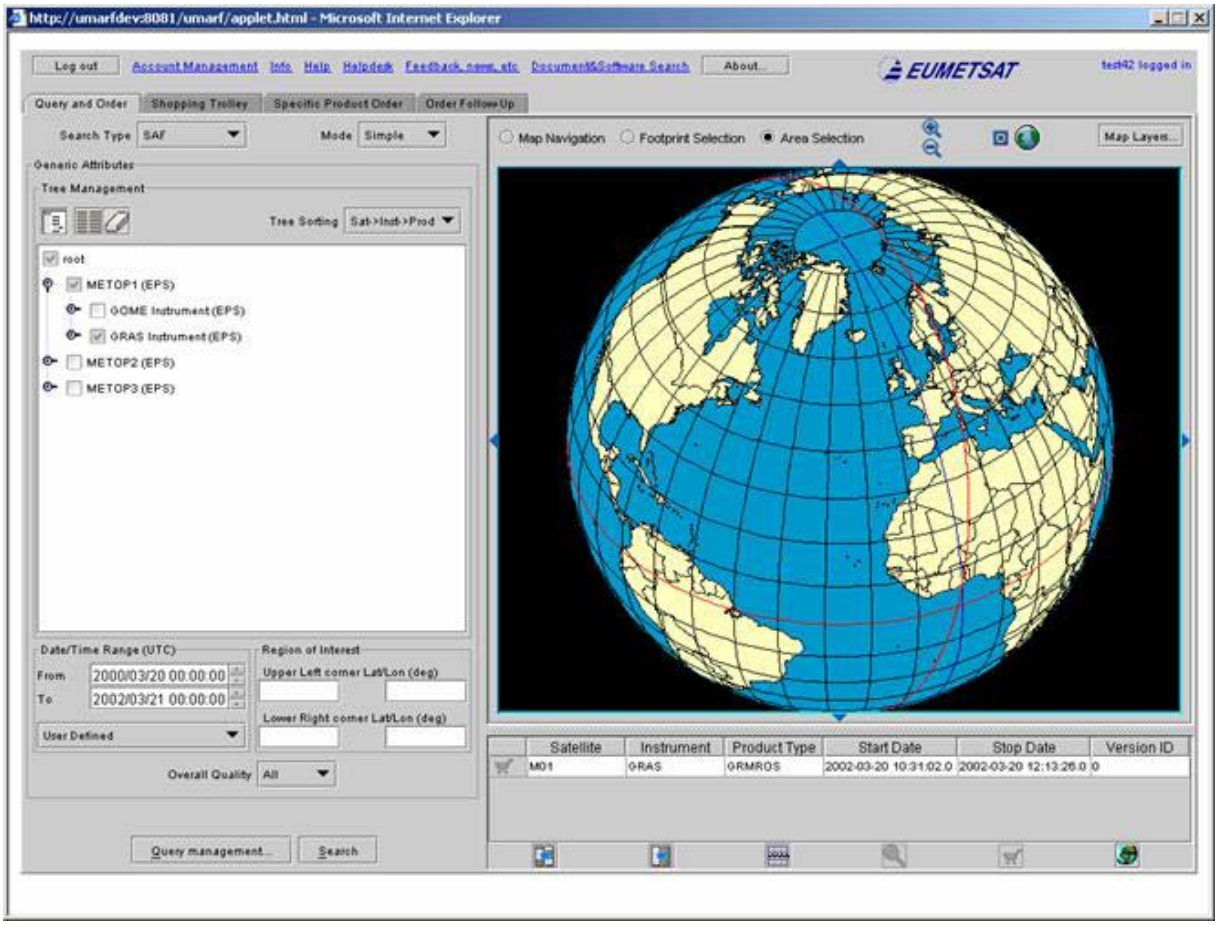
Query and Order Auxiliary Data Advanced Search

The Advanced Attributes pane is filled with the following attributes (the pane is scrollable):

Attribute	Description	Notes
Validity Time Range (UTC)	Date & Time range for validity date and time of the Auxiliary Data in absolute terms. A predefined set of user friendly ranges expressed in relative date&time references is provided.	Date format must be the following: YYYY/MM/DD HH:mm:SS.
Disposition Flag	Operational status of a product.	Available only for specific user groups.

4.11 SAF Simple Mode

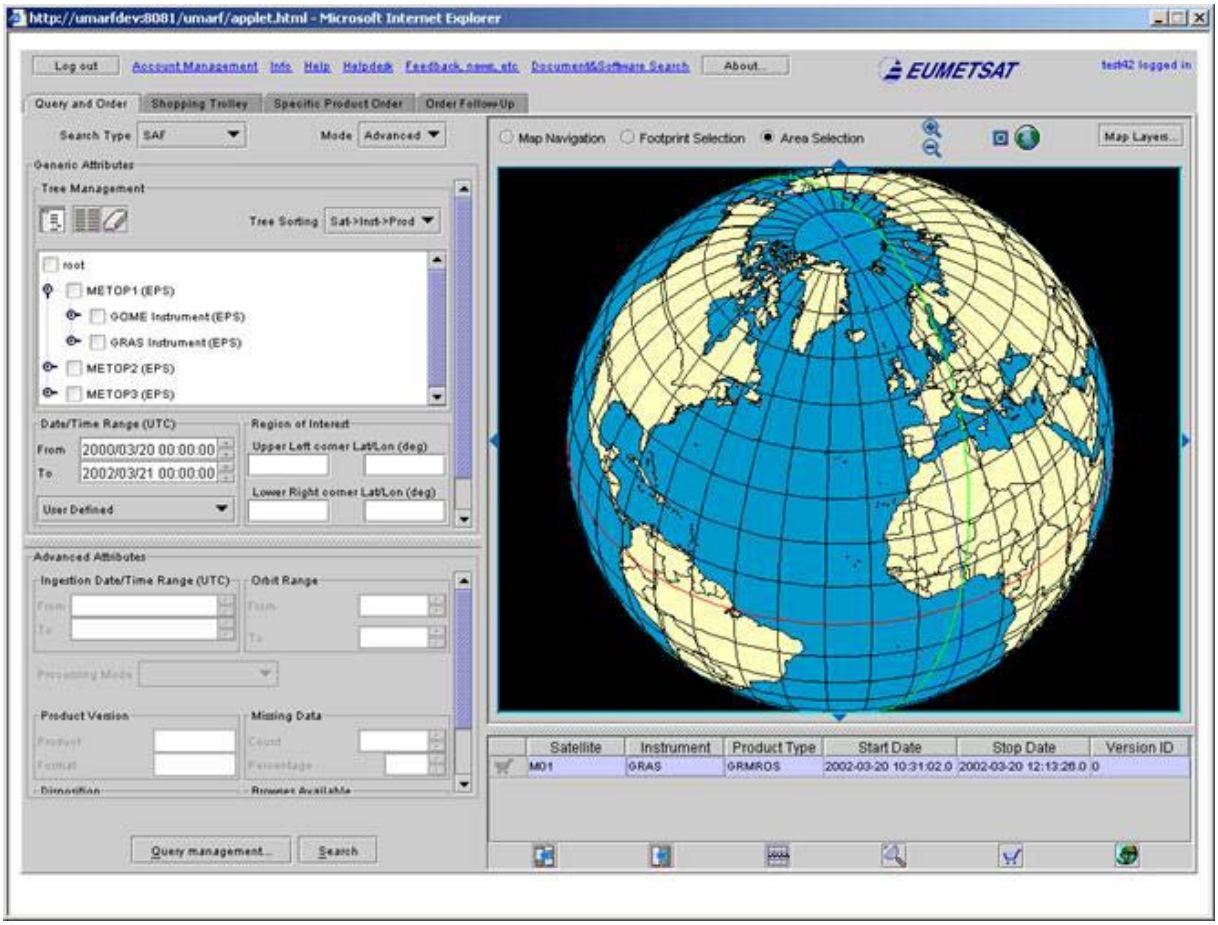
Selecting a SAF Simple search USI MMI presents the following window:



Query and Order SAF Simple Search

Attribute	Description	Notes
Date/Time Range (UTC)	Date & Time range of interest (TOI) in UTC. A predefined set of user friendly ranges expressed in relative date&time references is provided.	Date format must be the following: YYYY/MM/DD HH:mm:SS.
Region Of Interest	Upper Left and Lower Right co-ordinates of the region of interest. It can be filled manually or by using the Map tool as already described.	
Overall Quality	Overall quality of the product.	

4.12 SAF Advanced Mode



Query and Order SAF Advanced Search

The Advanced Attributes pane is filled with the following attributes (the pane can be scrolled):

Attribute	Description	Notes
Ingestion Date/Time Range (UTC)	Date and Time of the availability of the product.	Date format must be the following: YYYY/MM/DD HH:mm:SS.
Orbit range	Range of Orbits of interest.	
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.
Product Algorithm Version	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Missing Data Count	Maximum missing lines of data.	
Missing Data Percentage	Maximum percentage of missing data.	
Disposition Flag	Operational status of a product.	Available only for specific

Attribute	Description	Notes
		user groups.
Browse/AVHRR File Availability	Existence of the browse file is mandatory or not.	Available only for specific user groups.

4.13 Submitting a Query

Step	Action	Result
1	Choose a search type and mode.	The corresponding search mask is loaded.
2	Fill the search attributes.	
3	Click on the Search button.	A message dialog box is displayed with the number of search results.
4	Click on dialog box Cancel button.	No result is shown on the Result Table.
5	Click on the Search button.	A message dialog box is displayed with the number of search results.
6	Click on dialog box Ok button.	The search results are shown on the Result Table.

4.14 Result Table

After a query is made all matching results are displayed in the Results Table, located in the bottom right hand corner of the USI underneath the map. Between the Map and the Table there is a partition which can be picked up with the mouse and moved to increase or decrease the visible results area (or conversely the Map area).

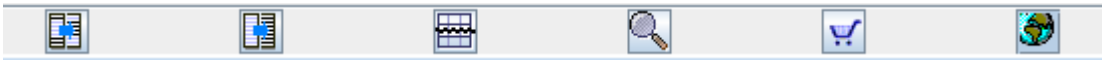
The data displayed in the Result Table is a summary of each catalogue holding which matched the query. The summary includes:

- Satellite ID
- Instrument ID
- Product Type
- Acquisition start date and time for the product data (or Creation date and time for Auxiliary Data products)
- Acquisition end date and time (not for Auxiliary Data products)
- Sub-satellite Longitude (only for GEO and Multimission products)
- Version (for some user groups more than one version of the same product may be available).

The first column of the table is a shopping trolley icon, which is highlighted if the product is placed in the shopping trolley. It is necessary to be logged in to add products to the shopping trolley.

By default the second column (first column with product information) contains the name of the data-providing Satellite. When the thumbnail images toggle button is active (bottom right corner of the MMI) the thumbnail, when available, will appear in this position.

4.15 Result table manipulation toolbar



4.16 Table Selection

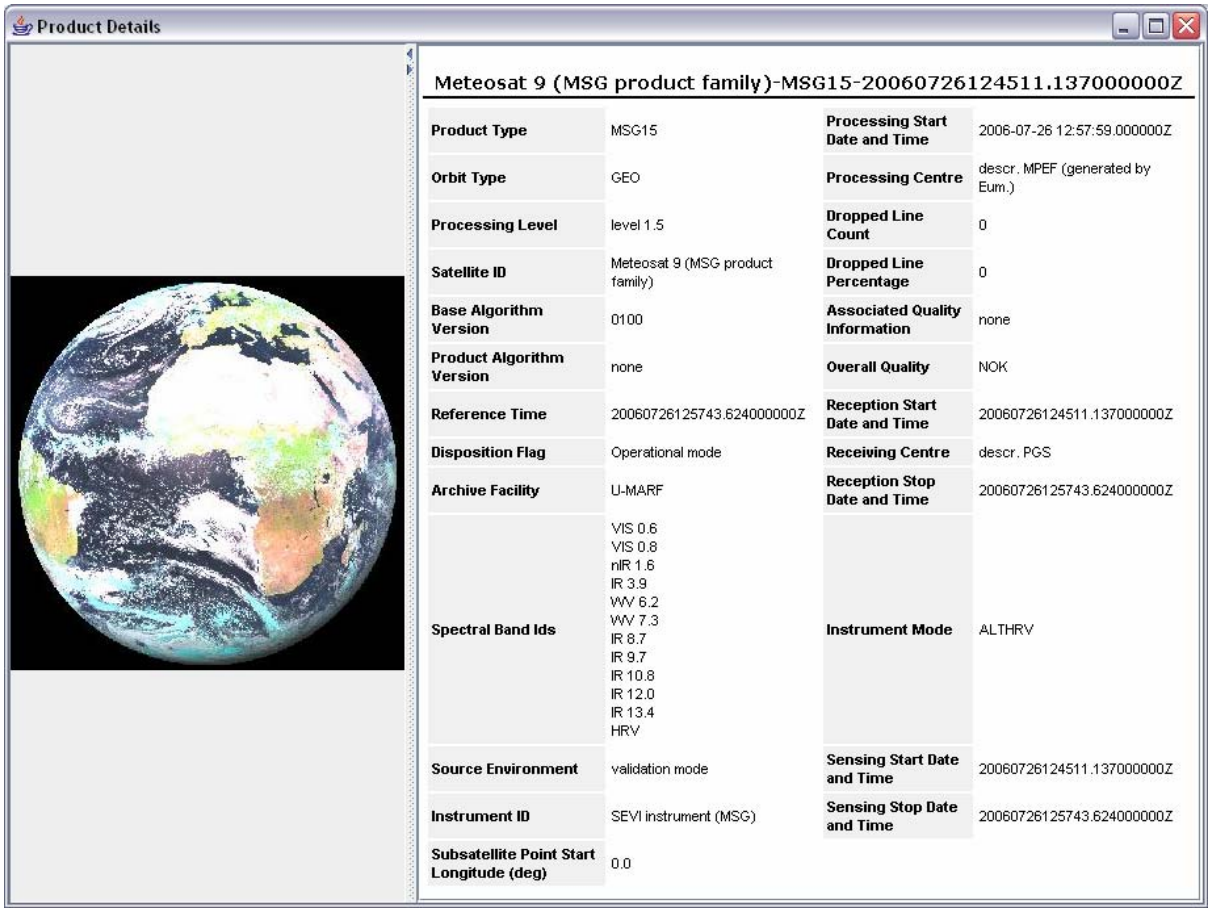
Step	Action	Result
1	Submit a query and click on button.	All items of the table are selected.
2	Select an item and click on toggle button.	The selection is inverted (previously selected item is unselected and all other items are selected).

4.17 Getting product details

To reach the product details page the following steps have to be performed:

Step	Action	Result
1	Submit a query and select an item on the Result Table.	The button is enabled.
2	Click on button.	A new window is displayed. It shows the selected product attributes.
3	Select more than one item on the Result Table.	The button is disabled.

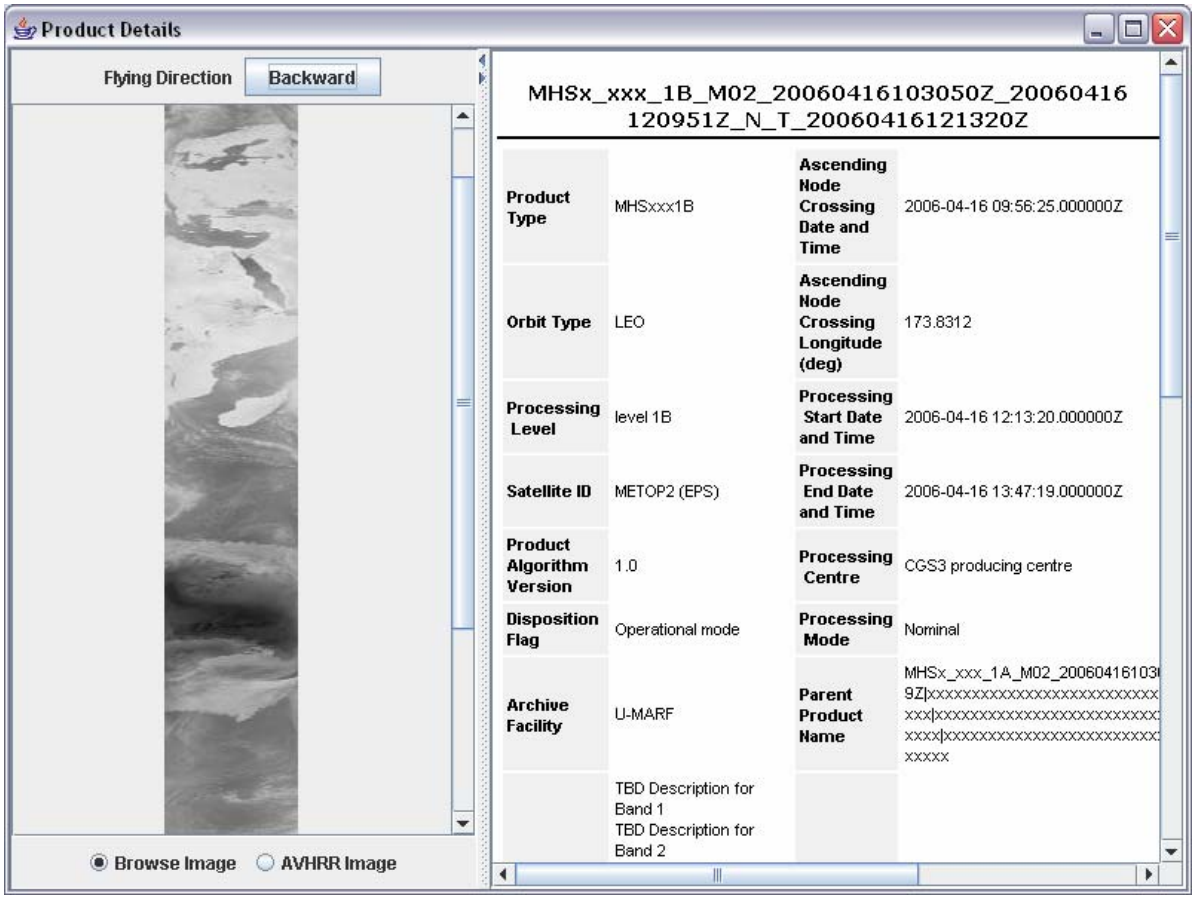
Following figure shows a Product Detail page for GEO products:



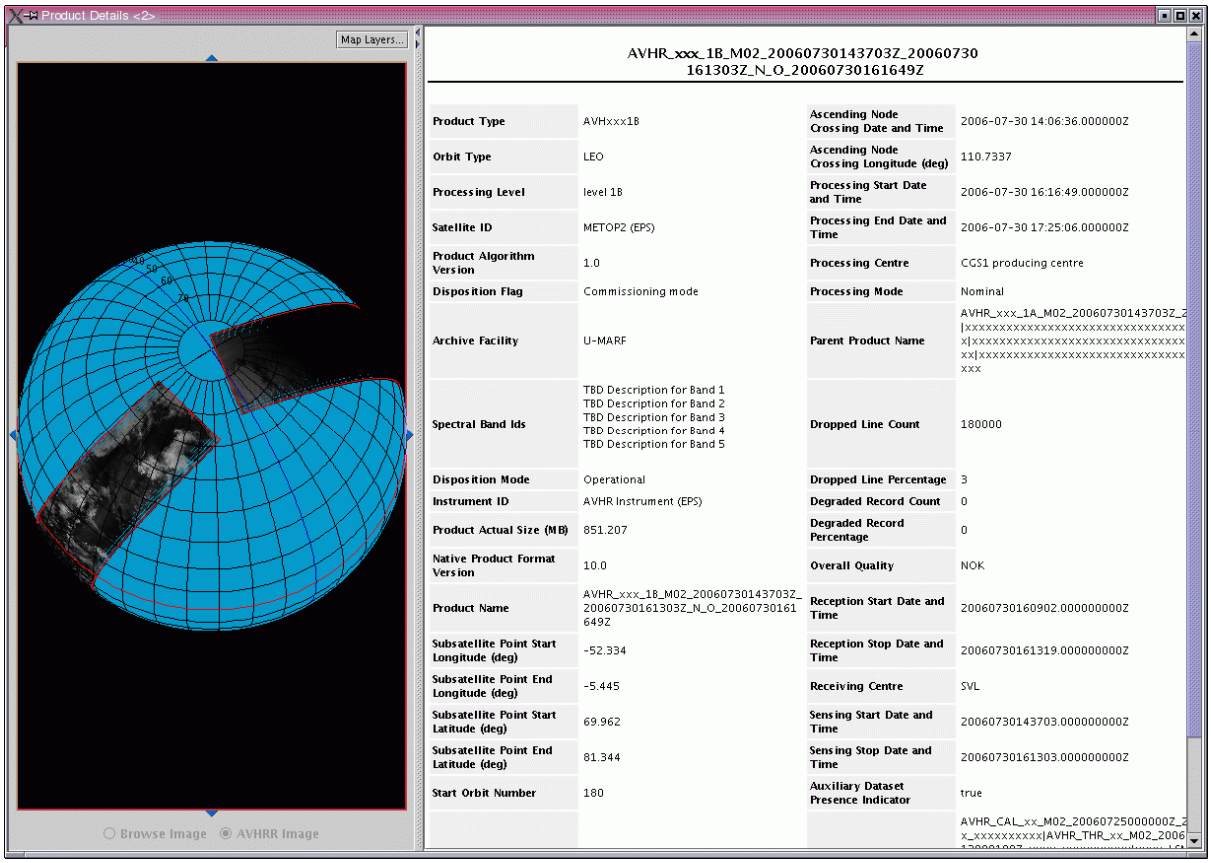
GEO Product Details page

The browse image of the selected product is shown at left-hand side of the page. The right-hand area of the window contains, as plain text, the list of metadata fields and their values for the specified product. A Vertical bar in the centre of the page can be moved to modify the relative area assigned to the image and text.

The LEO product detail page follows the same format. Browse images are only available for AMSU, MHS, HIRS, AVHR and IASI. All except AVHRR are displayed in rectangular plain array form with the option to rotate the orientation of the image by changing the sense of the satellite viewpoint:



For all products it is possible to inspect the associated AVHRR browse corresponding to the same sensing interval, one of many reasons for this is to allow the User to gather a first assessment of the cloud cover with respect to the instrument and region of interest. The AVHRR browse is projected onto a map and the boundaries of the associated product can be over-plotted.



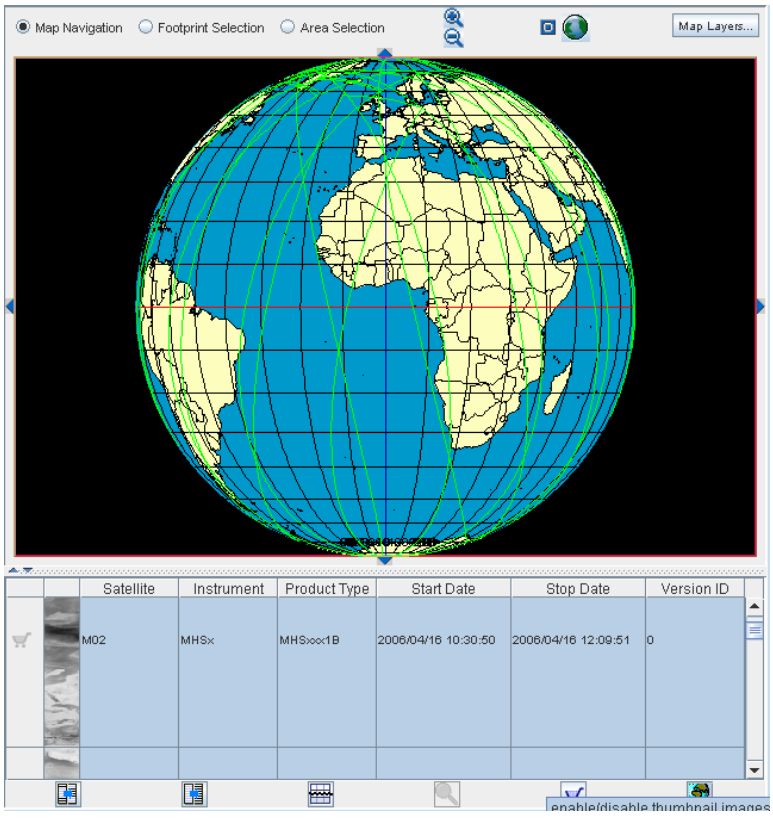
LEO Product Details page

4.18 Adding/Deleting products in the Shopping Trolley

Step	Action	Result
1	Submit a query and select one or more items; then click on the button.	The first column icons of the selected items are highlighted. The selected products have been added to the Shopping Trolley tree in Shopping Trolley tab.
2	Select an item and click on the button.	The fist column icon of the selected item is not highlighted anymore. The corresponding product is not present in the Shopping Trolley tree anymore.

4.19 Enabling/Disabling thumbnail images

Step	Action	Result
1	Submit a query and click on toggle button.	The column of the thumbnail images is shown as second column.
2	Select the icon of an item.	The corresponding thumbnail image (if any) is loaded replacing the icon.
3	Click again on the toggle button.	The column of the thumbnail images is hidden.



Result Table when the Toggle Button is on

When the thumbnail toggle is first turned on the icon will appear as a place holder in the thumbnail column. As the thumbnail images are checked and downloaded this icon will change to if no thumbnail is available or be replaced with a small image of the product.

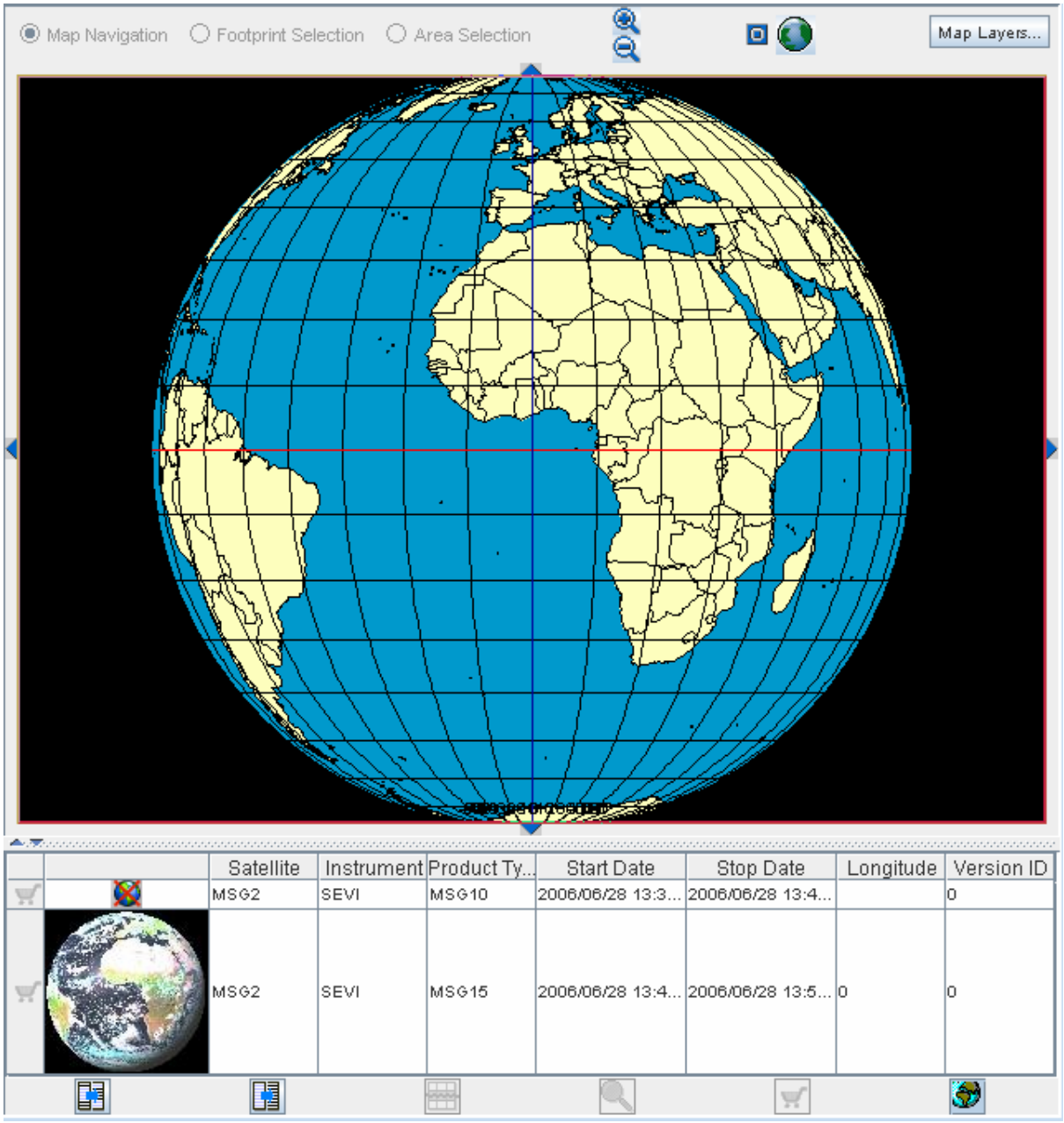
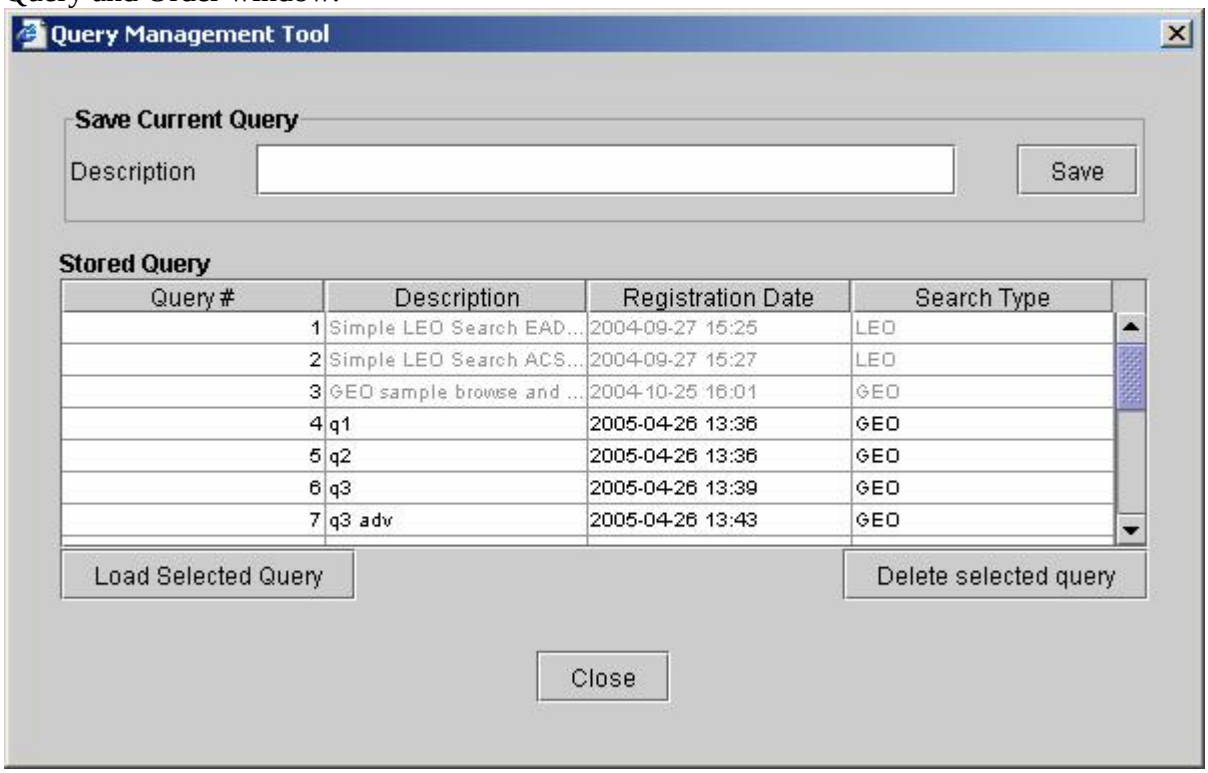


Illustration of an icon indicating no thumbnail available for the Level 1.0 data, but a thumbnail is displayed for the Level 1.5 data.

4.20 Query Management Tool

This feature is enabled for registered users only. With this tool, the user can save and later load the query parameters used to find particular products. The Query Management window

can be opened by clicking on the Query Management button in the bottom left area of the Query and Order window.



Query Management Tool window

4.21 Saving/Retrieving a Query

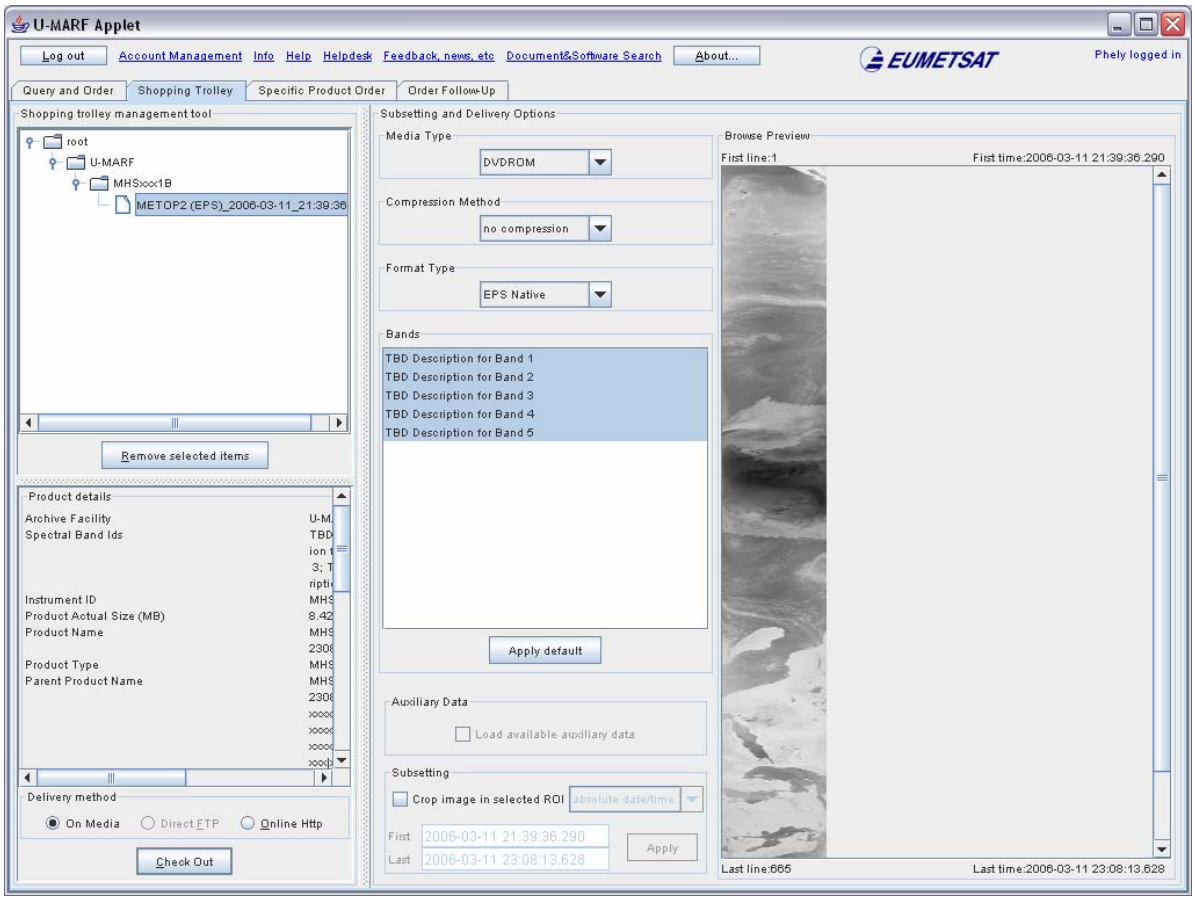
Step	Action	Result
1	Login as a registered user.	The Query management button and other graphic components are enabled.
2	Choose a search type and mode	The corresponding search mask is loaded.
3	Fill the search attributes	
4	Click on the Query management button.	The Query management Tool panel is displayed. If it is a malformed query an error message will appear.
5	Type the query description.	No result is shown on the Result Table.
6	Click on the Save button.	The new query is added in the stored queries list.
7	Select a query previously saved and click on the Load Selected Query button.	The corresponding search mask is loaded and the Query management Tool panel is automatically closed.

4.22 Deleting a stored Query

Step	Action	Result
1	Click on the Query management button. (the user must be logged in).	The Query management Tool panel is displayed.
2	Select a query previously saved and click on the Delete Selected Query button.	A confirm dialog is displayed.
3	Click on Ok button.	The selected query is removed from the stored queries list.
4	Click on Close button.	The Query management Tool panel is closed.

5 SHOPPING TROLLEY

Clicking on the Shopping Trolley tab, will cause the following window to be displayed. In the example, one of the items in the shopping trolley has been selected and the product details and browse image are loaded.



Shopping Trolley

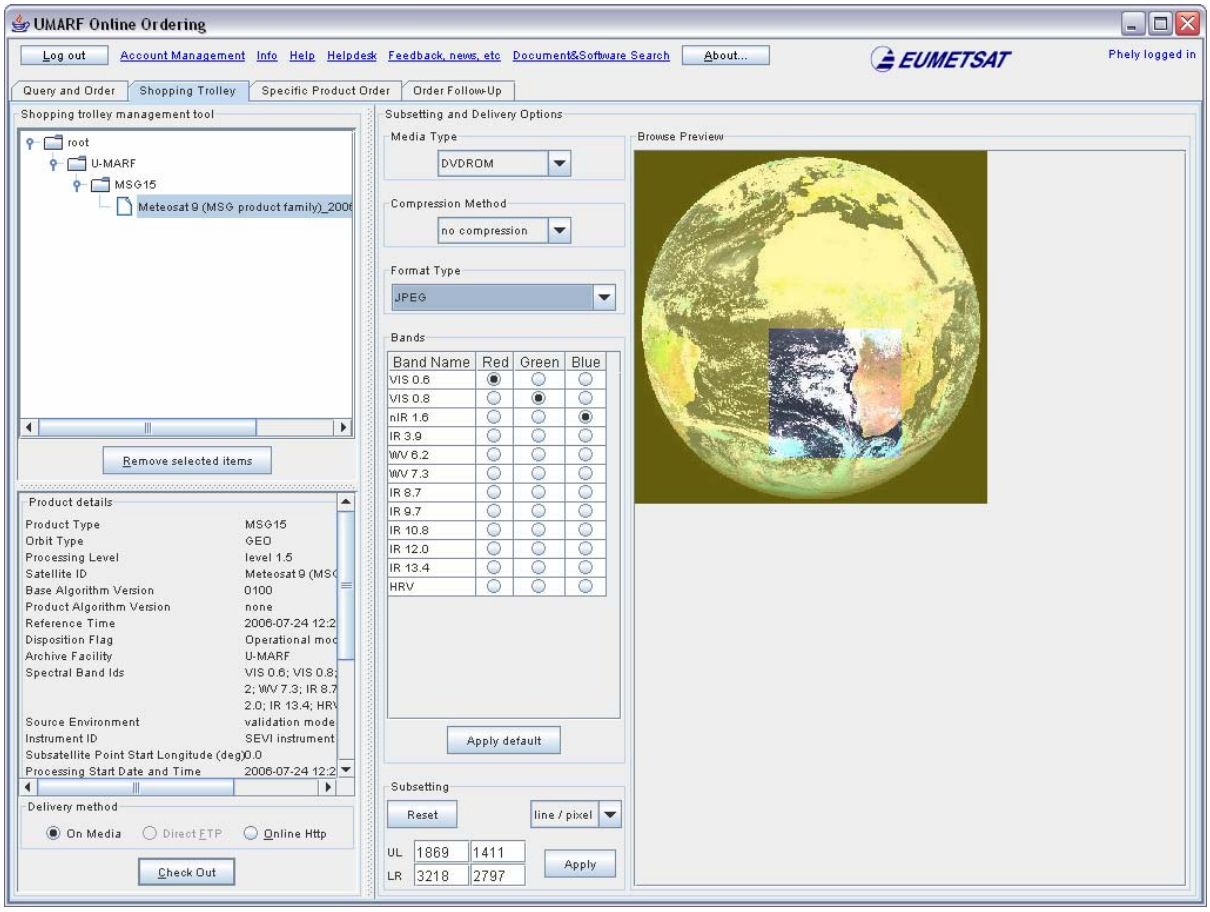
In the Shopping Trolley tab, the following components are available to the User:

- A tree view representing the products to be ordered. They are grouped by the Archive Facility (U-MARF, SAF,..) and then by Product Type. The leaves of the tree are the products on which sub-setting and delivery options can be applied. A button under the tree view is available to remove the selected product from the shopping trolley.
- A delivery method selection area, in which the user can choose if the order will be delivered on media or on-line by http download or direct ftp delivery.
- A Product detail area containing information about the selected item in the tree view.
- A sub-setting and delivery option pane used to define the media type, the compression method and format type of the order; to apply a spectral and a spatial sub-setting on the product.
- The browse preview area shows the product image if present and can be used also to select specific sub-areas for sub-setting.

SPATIAL SUBSETTING: the default product characteristics are full earth images for GEO image data and approximately orbit length swaths for LEO data (e.g. typically extending between consecutive visibilities at the ground station on Svalbard for MetOp). Spatial subsets will deliver limited regions within this product coverage, e.g. a square pixel and column sub-region for a GEO image and the data between two intermediate sensing times for LEO data.

5.1 Sub-setting and Delivery Options

On the centre of the Shopping Trolley tab, a dedicated pane groups together all the delivery and sub-setting options for the products prior to checkout. The figure below shows the above elements when the product selected in the tree is a GEO product:



Subsetting and delivery options for GEO data.

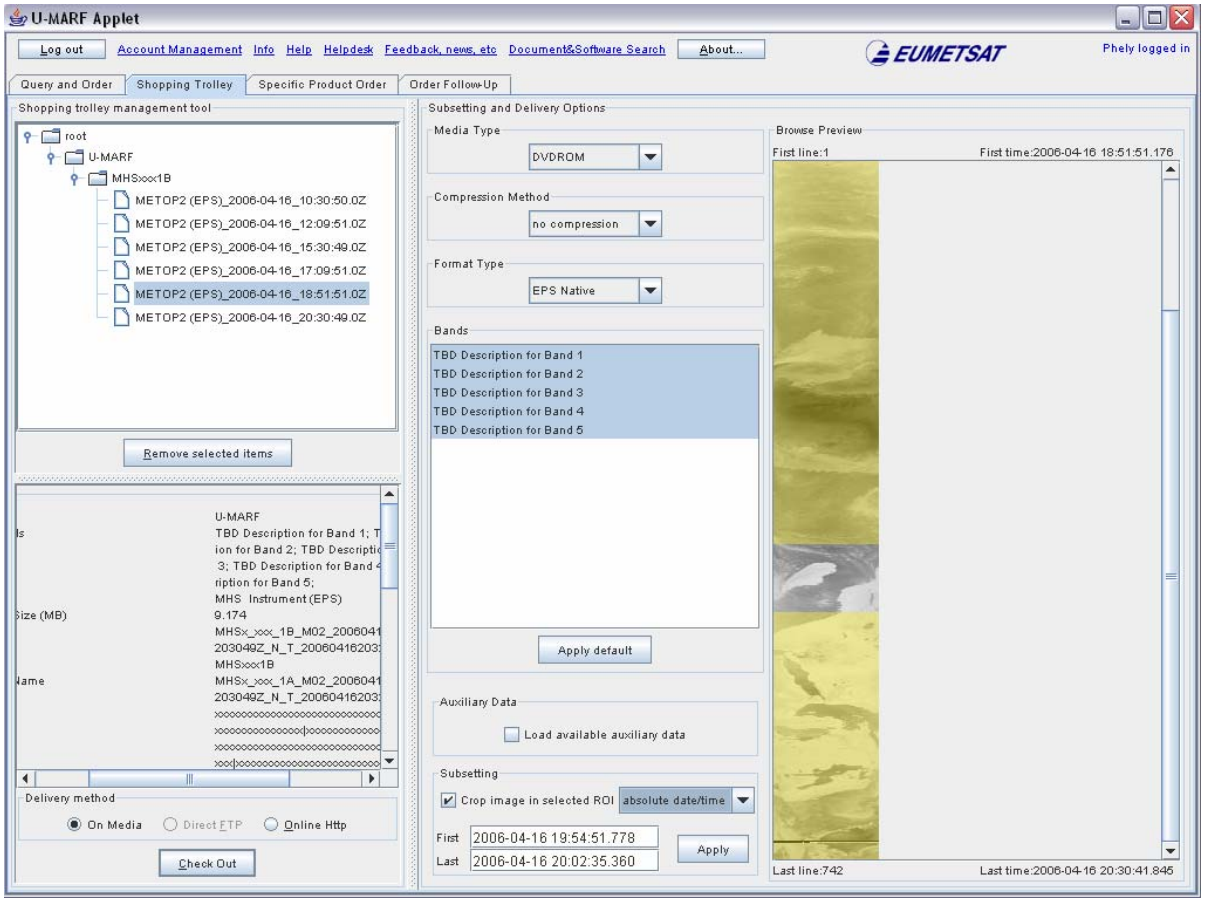
5.2 Shopping Trolley GEO product selected

The following attributes may be modified in the order.

Attribute	Description	Notes
Media Type	Physical support to be used for delivery.	On line delivery can be by FTP delivery or HTTP Download; otherwise all the

Attribute	Description	Notes
		other available media types are settable for the specified product.
Compression Method	Method to be used for compressing data when delivering.	
Format Type	Format of the data to be delivered.	
Bands	Spectral bands for the specified product type.	
Subsetting	Units to be used for define geo-spatial subsetting options.	For GEO data, line and pixel or latitude and longitude can be selected
UL	Upper Left corner of the subsetting region.	Expressed in units specified by Subsetting. Content can be filled manually or using the Image.
LR	Lower Right corner of the subsetting region.	Expressed in units specified by Subsetting Unit. Content can be filled manually or using the Image

5.3 Shopping Trolley LEO product selected



The following attributes may be modified in the order.

Attribute	Description	Notes
Media Type	Physical support to be used for delivery.	On line delivery can be by FTP delivery or HTTP Download; otherwise all the other available media types are settable for the specified product.
Compression Method	Method to be used for compressing data when delivering.	
Format Type	Format of the data to be delivered.	
Bands	Spectral bands for the specified product type.	
Subsetting	Units to be used for define geo-spatial subsetting options.	For LEO data, line number or seconds (sensing time) can be selected.
Load available auxiliary	It is to add also the auxiliary data	

Attribute	Description	Notes
data	available for the products included in the generated order.	
Crop image in selected ROI	If selected the subsetting boundaries will be set to the intersecting ROI defined at search time.	
First	First line of the subsetting region It can be expressed on line-number or on time-seconds.	Expressed in units specified by Subsetting. Content can be filled manually or using the Image. If the image is used, the lines at the border of the yellow zone can be moved vertically to select the desired line.
Last	Last line of the subsetting region.	Expressed in units specified by Subsetting. Content can be filled manually or using the Image.

5.4 Obtaining Product Details

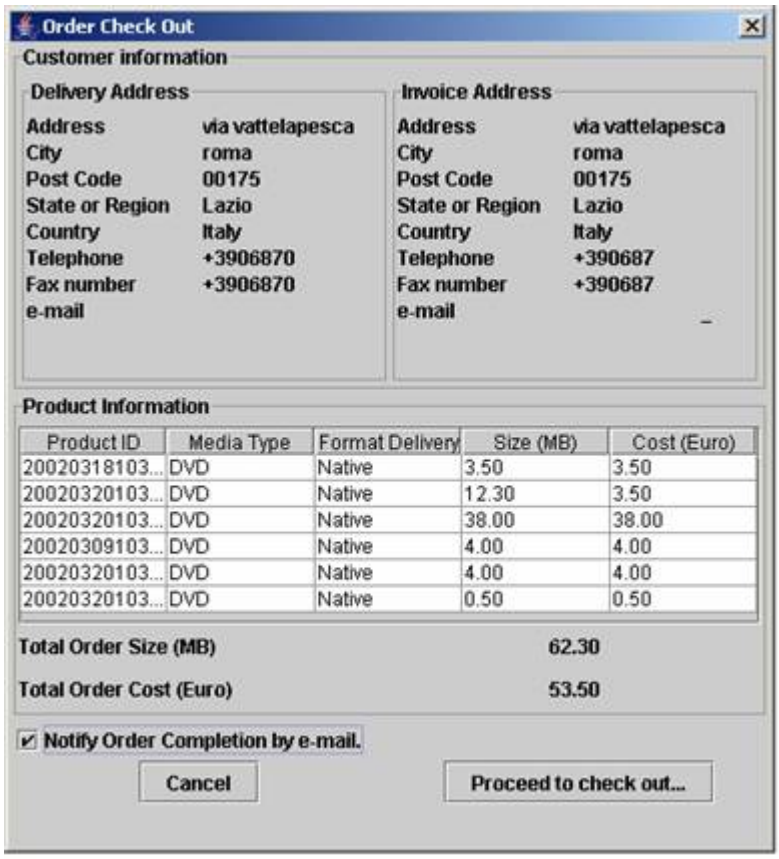
Step	Action	Result
1	Select a product by clicking on a leaf of the tree.	The selected product details are displayed in the lower part of the pane. The Remove selected items button is enabled and the proper Subsetting and Delivery Options mask is displayed.

5.5 Removing selected items

Step	Action	Result
1	Select more products by clicking on the tree leaves.	No details are displayed in the lower part of the pane. The Remove selected items button is enabled.
2	Click on Remove selected items button.	The products are removed from the shopping trolley (from the tree).

5.6 Checking out

Pressing the Check-out button of the Shopping Trolley tab panel the following window appears summarizing the order info:


Order Check Out
Customer information
Delivery Address
Address via vattelapesca
City roma
Post Code 00175
State or Region Lazio
Country Italy
Telephone +3906870
Fax number +3906870
e-mail
Invoice Address
Address via vattelapesca
City roma
Post Code 00175
State or Region Lazio
Country Italy
Telephone +390687
Fax number +390687
e-mail
Product Information
Product ID | Media Type | Format Delivery | Size (MB) | Cost (Euro)
20020318103... | DVD | Native | 3.50 | 3.50
20020320103... | DVD | Native | 12.30 | 3.50
20020320103... | DVD | Native | 38.00 | 38.00
20020309103... | DVD | Native | 4.00 | 4.00
20020320103... | DVD | Native | 4.00 | 4.00
20020320103... | DVD | Native | 0.50 | 0.50
Total Order Size (MB) 62.30
Total Order Cost (Euro) 53.50
Notify Order Completion by e-mail.
Cancel
Proceed to check out...

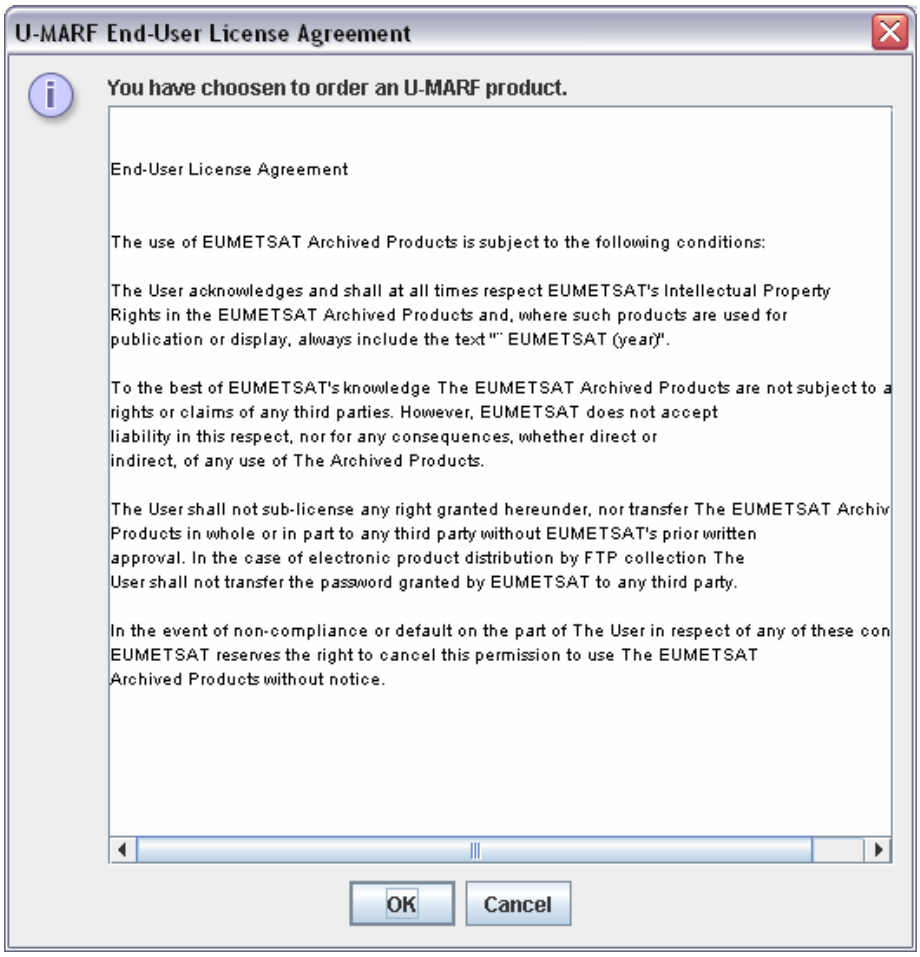
Order Check-out

Step	Action	Result
1	Click on the Checkout button.	An order check out box is displayed showing the order info such as total order size and cost.
2	Click on the Proceed to check out button	A dialog box is displayed showing the EULA page (see EULA section below).
3	Click on EULA window Accept button.	The Notification dialog is displayed.
4	Click on OK button.	The Notification dialog is closed.

5.7 End User License Agreement (EULA)

A EULA page is displayed as the last step in all ordering processes, e.g. after hitting the Checkout button.

In order to successfully submit the order, the user must click on the “OK” button at the bottom of the page. Clicking on the Cancel button will close the EULA window with no further actions (the order is NOT submitted). Selecting “OK” will accept the terms of the EULA.

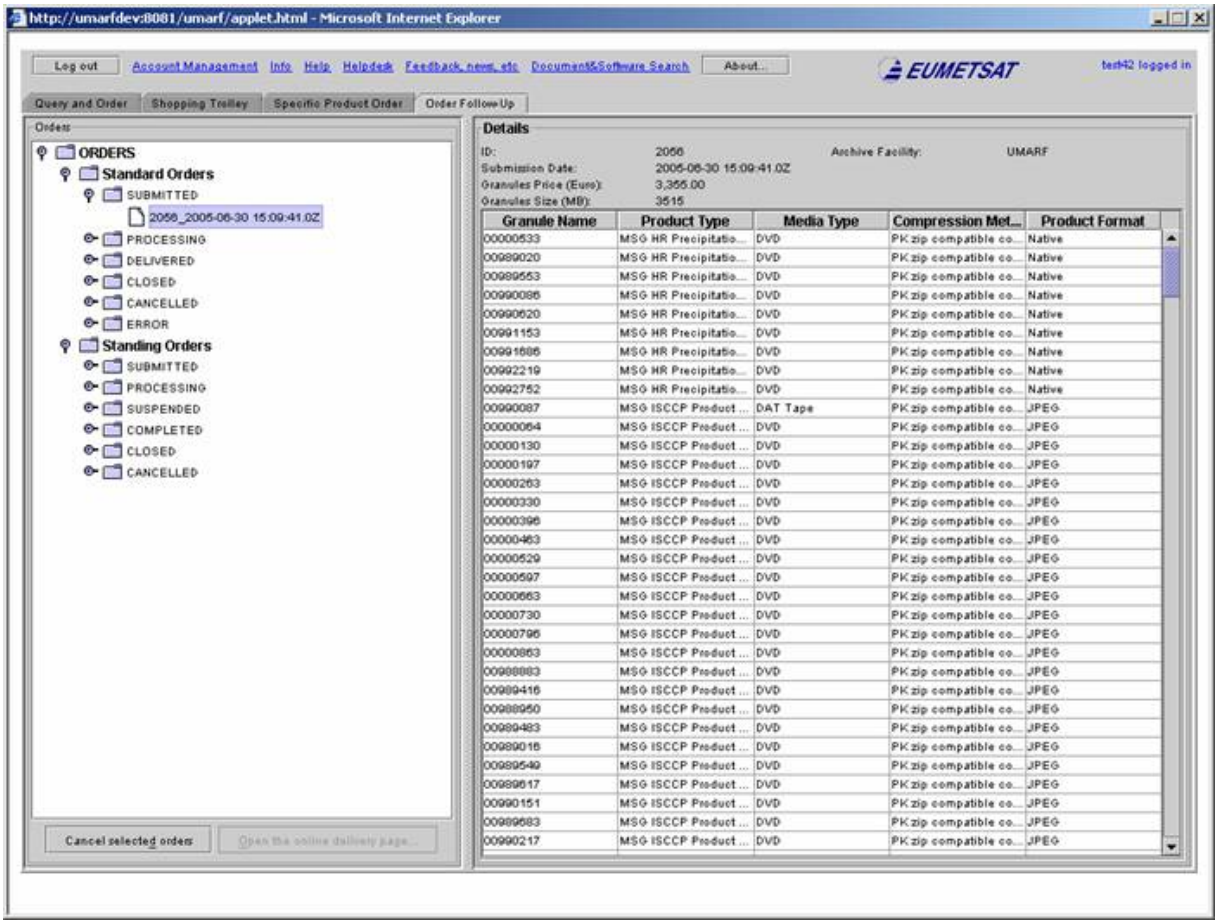

U-MARF End-User License Agreement
You have choosen to order an U-MARF product.
End-User License Agreement
The use of EUMETSAT Archived Products is subject to the following conditions:
The User acknowledges and shall at all times respect EUMETSAT's Intellectual Property Rights in the EUMETSAT Archived Products and, where such products are used for publication or display, always include the text "© EUMETSAT (year)".
To the best of EUMETSAT's knowledge The EUMETSAT Archived Products are not subject to a rights or claims of any third parties. However, EUMETSAT does not accept liability in this respect, nor for any consequences, whether direct or indirect, of any use of The Archived Products.
The User shall not sub-license any right granted hereunder, nor transfer The EUMETSAT Archiv Products in whole or in part to any third party without EUMETSAT's prior written approval. In the case of electronic product distribution by FTP collection The User shall not transfer the password granted by EUMETSAT to any third party.
In the event of non-compliance or default on the part of The User in respect of any of these con EUMETSAT reserves the right to cancel this permission to use The EUMETSAT Archived Products without notice.
OK
Cancel

6 ORDER FOLLOW-UP

Once an order is submitted the progress of the order can be followed in the Order Follow Up tab. All the orders submitted by a given user are displayed in an order tree of a similar format to the product tree in the Query and Order tab. There are two initial branches corresponding to Standard Orders (essentially products ordered by historical searches) and Standing Orders (the order of a repeating series of products in the future).

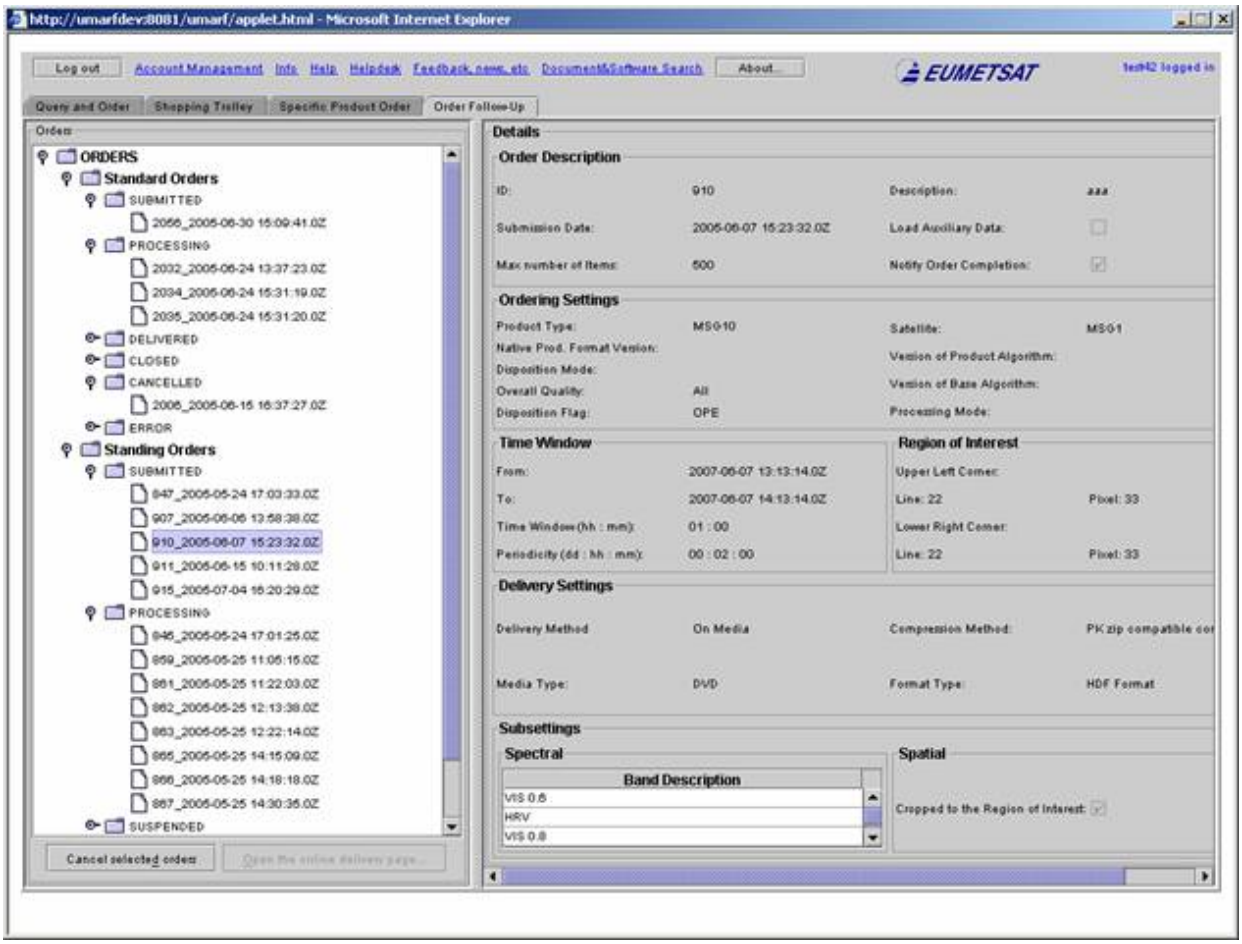
Each order is identified by its order number and a time stamp. The sub-folder (sub-branch) in which the order is placed defines the current status of the order. Selecting an order gives the full listing of the order contents in the right hand pane.

Apart from providing tracking information for the order, the tab includes the functions to cancel an order and for the download of items delivered by HTTP.



Order Follow-Up Window (Standard detail)

The following window illustrates the tab when an item from the Standing order branch is selected:



Order Follow-Up Window (standing detail)

6.1 Getting details of an order

Step	Action	Result
1	Select a specific order by clicking on a leaf of the tree of the Standard or Standing orders pane.	The selected order details are displayed in the right hand part of the pane.
2	Select more than one specific order by clicking on the leaves of the tree of the Standard or Standing orders pane.	No details are displayed.

6.2 Canceling a processing order

Step	Action	Result

1	Select one or more specific processing orders by clicking on the leaves of the tree of the Standard or Standing orders pane.	The Cancel selected orders button is enabled.
2	Click on Cancel selected orders button.	A confirm dialog box is displayed.
3	Click on Ok button.	The tree is refreshed and the order(s) is moved in the CANCELLED node.

6.3 Opening Online delivery page

Step	Action	Result
1	Select a SHIPPED order with Delivery Method on line, by clicking on a leaf of the Standard orders tree.	The “Open the online delivery page” button is enabled.
2	Click on Open the online delivery page button.	An HTML page is spawned from where the “Shipping Note” and the ordered data may be downloaded.

7 SPECIFIC PRODUCT ORDER

The Specific Product Order tab provides additional ordering services to supplement the classical options of Query and Order.

WARNING: The Specific Product Order tab is enabled for only specific user groups. After initial registration a user may be able to view the Tab but submitting orders will not be successful. Only after the user has been assigned to specific user groups may some of these services become available. Please contact EUMETSAT Help Desk if you need access to this service.

Direct Order

This is intended to allow the absolute specification of a product and directly place it in the shopping trolley for final delivery details to be made. The product specification relies on **product type**, **satellite** and **time**.

The time specification is a single value and not an explicit range. For GEO products, the time is the nominal time of the product (e.g. time of an image slot) for LEO data the time corresponds to the sensing start time. It is difficult to specify such a time exactly without full *a priori* knowledge. The time field requires the day to be specified, but relaxes the condition of direct specification by allowing wild cards (*) in the hour, minute and second sub-fields. This eases the specification of the product but may lead to multiple items being selected.

Direct order also requires the setting of flag and mode values and optional processing and format versions. All of these parameters correspond to the internal state of the ground segment processing and archiving system. In general, the options given in the table below will give a User the best likelihood of finding the latest operational data. Specific knowledge is required to obtain successful matches by using the other options.

	GEO	LEO	Auxiliary Data	SAF
Version of base Algorithm	leave blank	leave blank		leave blank
Version of Product Algorithm	leave blank	leave blank		leave blank
Native Product Format Version		leave blank		leave blank
Disposition Flag	Operational	Operational	Operational	Operational
Disposition Mode		Operational		
Processing Mode		Nominal*		Nominal*

*Failing results with Nominal the user is recommended to try “Backlog”.

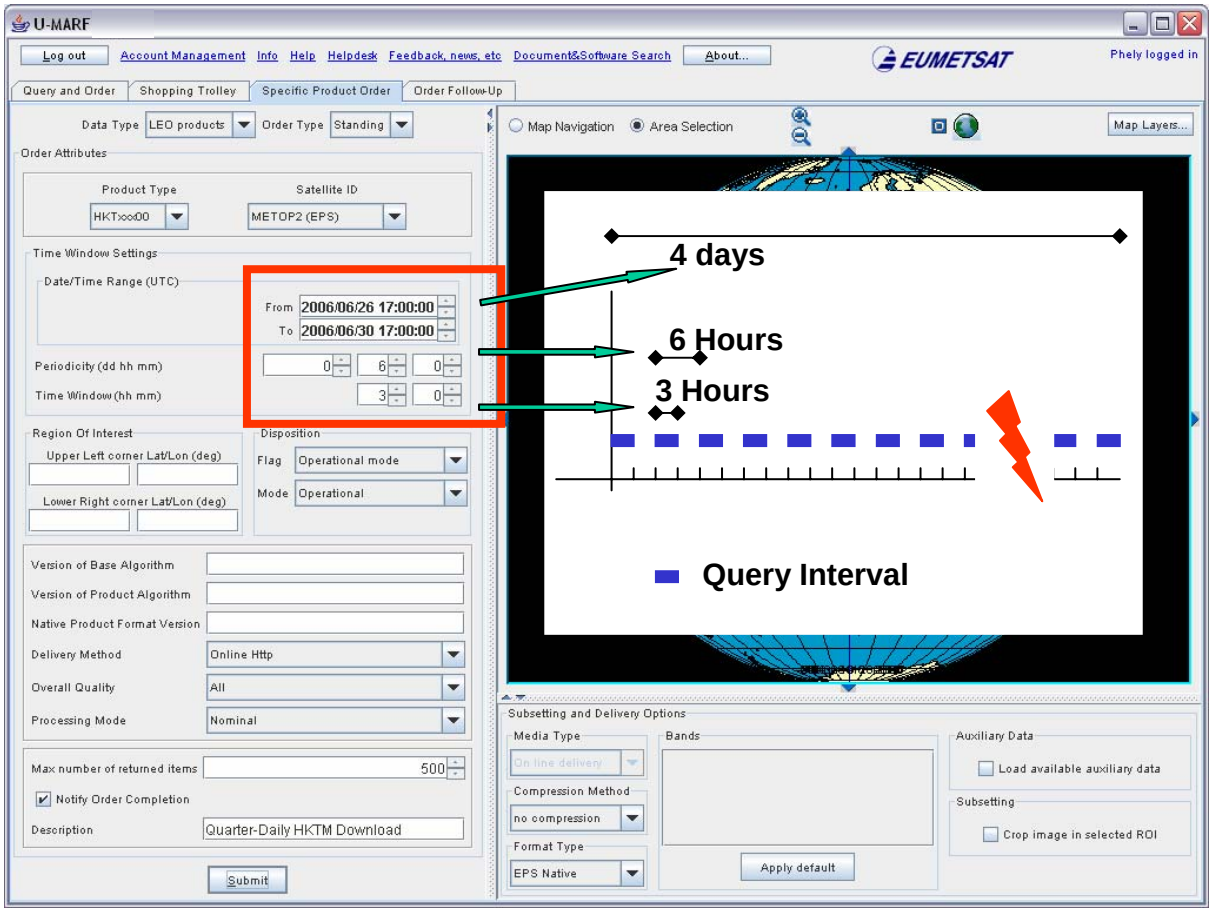
Bulk Order

In normal operations each User is assigned a specific maximum volume of data which can be ordered at any one time. As orders are completed this quota is recovered and the User can continue to make new orders. Nevertheless, the option to request a very large volume order is

available through the Bulk Order mechanism. The Bulk Order option to the Specific Order Tab allows the direct order of one product type corresponding to a single satellite over an extended time range. The default media selection set by the User in the Registration Page is applied to the order.

Standing Order

Standing order is an option to set up the order of future data. In the Tab all the query, delivery and sub-setting options are presented together for the selection of a single product type. The Standing Order is applied to a time-range specified by the User in the future (e.g. a 4 day period in the example below). Within this range all products which fall into a set of time repeating query intervals, will be automatically ordered and delivered.



7.1 Order Selection

When the user selects a combination of Data and Order Type, the tab modifies the content of the left panel in order to present to the user the functionalities foreseen for the specified combination.

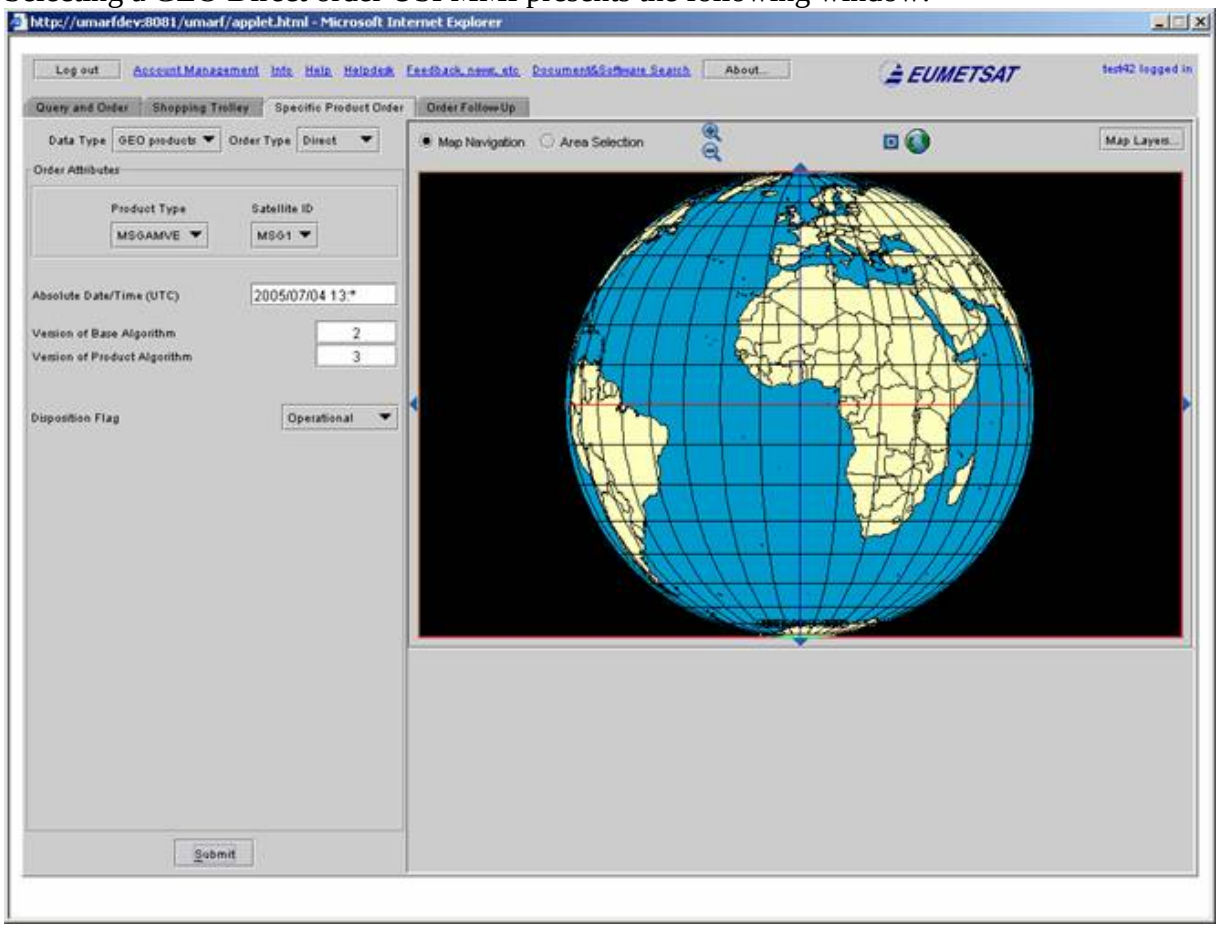
Step	Action	Result
1	Select a data type on the Data Type menu.	Order attributes are displayed referred to the selected data type. Auxiliary Data type is enabled only for Direct

Step	Action	Result
	Data Type GEO products GEO products LEO products Auxiliary Data SAF	orders.
2	Select an order type in the Order Type menu. Order Type Direct Direct Bulk Standing	The order attributes panel is refreshed according to the order type selected.

7.2 Direct Order

7.2.1 GEO products

Selecting a GEO Direct order USI MMI presents the following window:



Specific Product Order GEO Direct Order

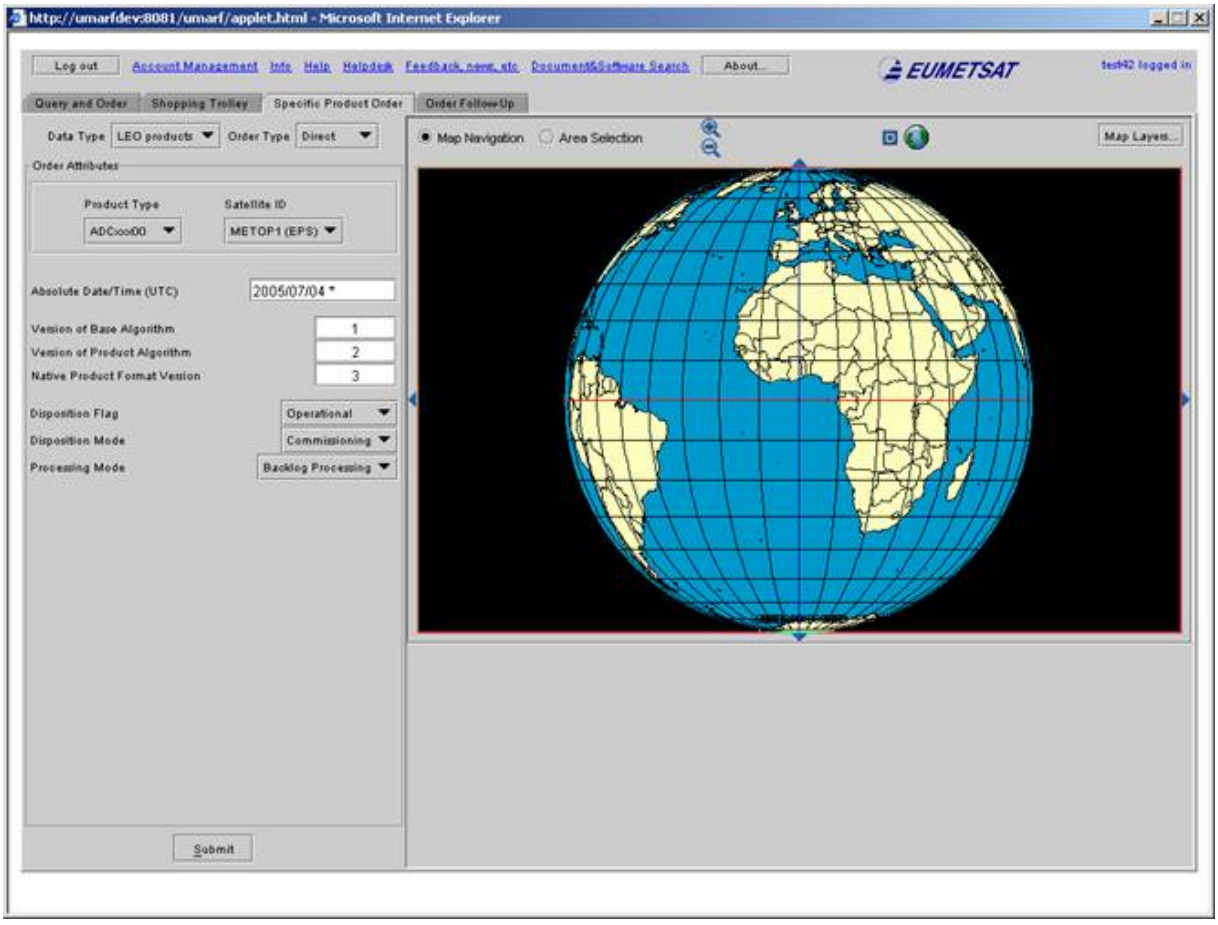
The order attributes for Direct Order-GEO are the following:

Attribute	Description	Notes

Product Type	Date type.	
Satellite ID	Satellite.	
Absolute Date Time (UTC)	Date & Time range of interest (TOI) in absolute terms. The time should as far as possible identify the products that fall within the defined part of the time.	Date format must be the following: YYYY/MM/DD* or YYYY/MM/DD hh.* or YYYY/MM/DD hh:mm:*
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Disposition Flag	Operational status of a product.	Available only for specific user groups.

7.2.2 LEO products

Selecting a LEO Direct order USI MMI presents the following window:



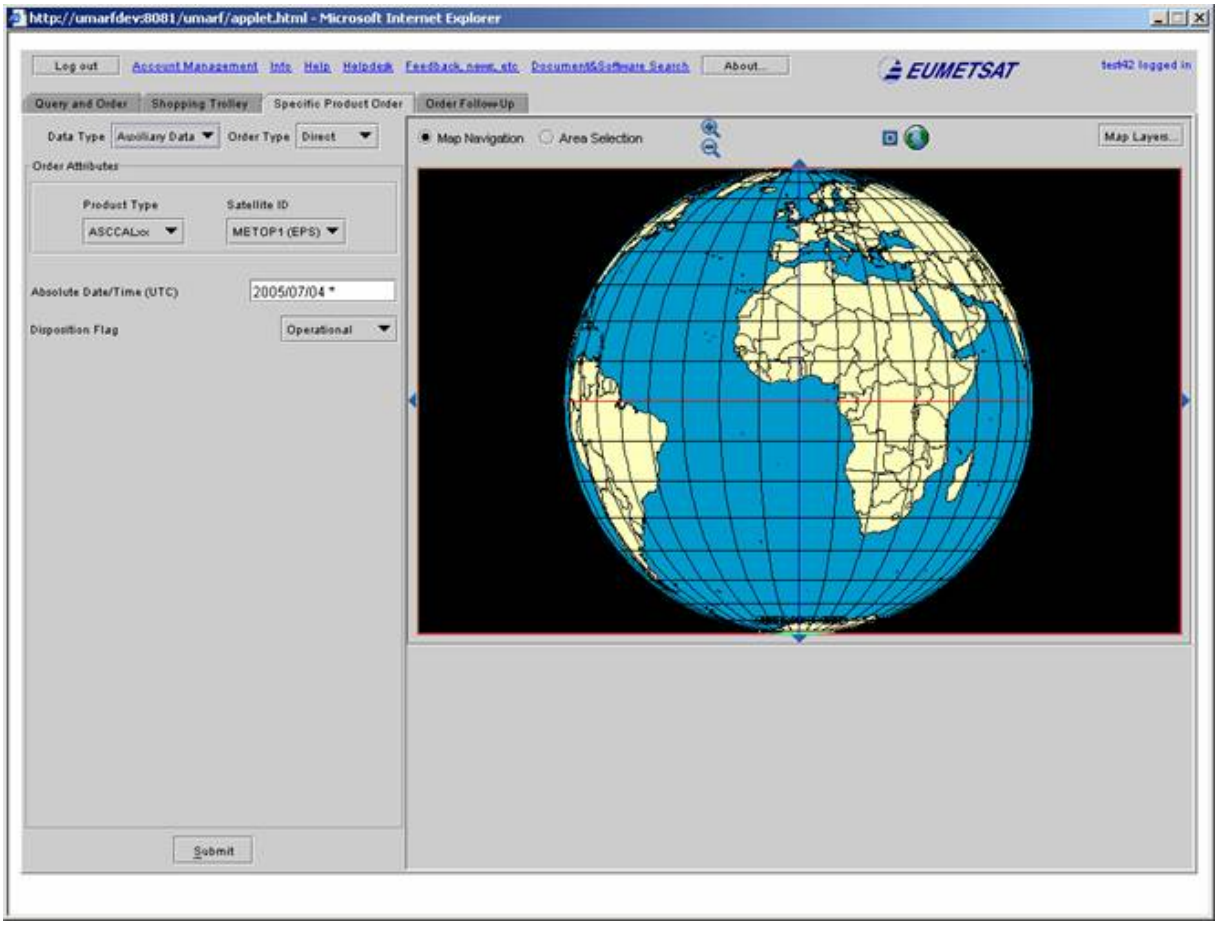
Specific Product Order LEO Direct Order

The order attributes for Direct Order-LEO are the following:

Attribute	Description	Notes
Product Type	Date type.	
Satellite ID	Satellite.	
Absolute Date Time (UTC)	Date & Time range of interest (TOI) in absolute terms. The time should as far as possible identify the products that fall within the defined part of the time.	Date format must be the following: YYYY/MM/DD* or YYYY/MM/DD hh.* or YYYY/MM/DD hh:mm:*
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Disposition Mode	Disposition mode applied for product generation.	Available only for specific user groups.
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.

7.2.3 Auxiliary Data

Selecting an Auxiliary Data Direct order USI MMI presents the following window:



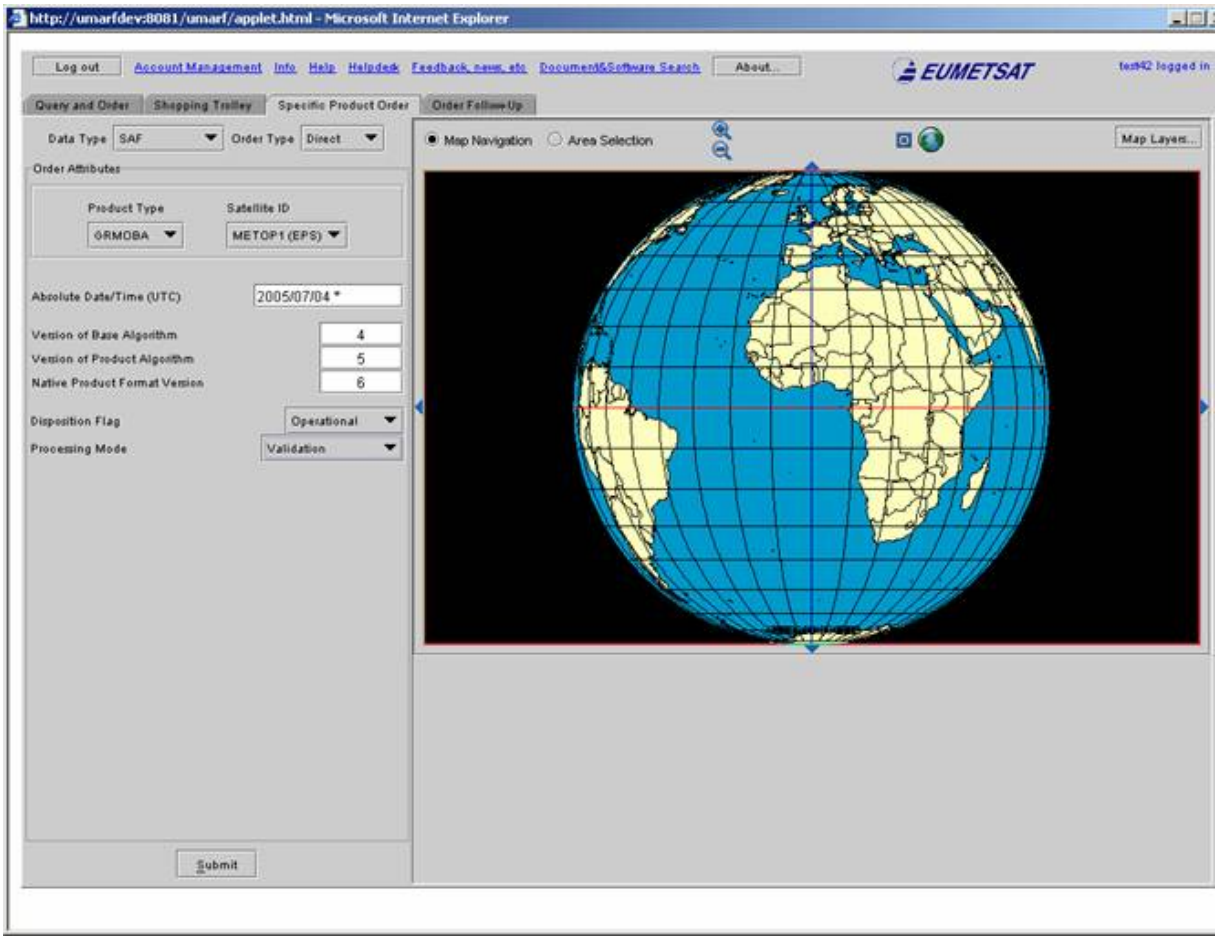
Specific Product Order Auxiliary Data Direct Order

The order attributes for Direct Order-Auxiliary Data are the following:

Attribute	Description	Notes
Product Type	Type of the product to be ordered	
Satellite ID	Satellite.	
Creation Date Time (UTC)	Date & Time range for creation date of the Auxiliary Data in absolute terms.	Date format must be the following: YYYY/MM/DD* or YYYY/MM/DD hh.* or YYYY/MM/DD hh:mm:*
Disposition Flag	Operational status of a product.	Available only for specific user groups.

7.2.4 SAF products

Selecting a SAF Direct order USI MMI presents the following window:



Specific Product Order SAF Direct Order

The order attributes for Direct Order-SAF are the following:

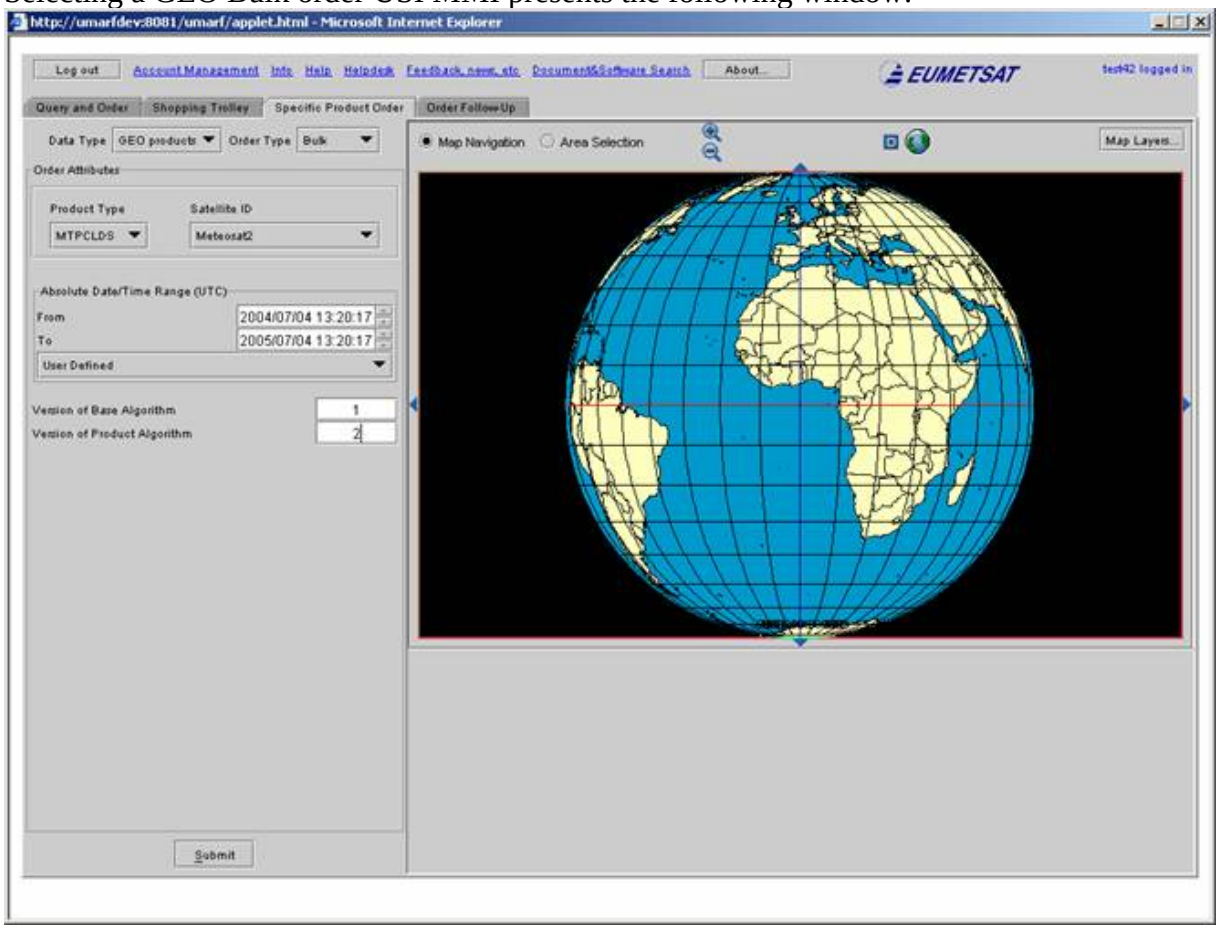
Attribute	Description	Notes
Product Type	Date type.	
Satellite ID	Satellite.	
Absolute Date Time (UTC)	Date & Time range of interest (TOI) in absolute terms. The time should as far as possible identify the products that fall within the defined part of the time.	Date format must be the following: YYYY/MM/DD* or YYYY/MM/DD hh.* or YYYY/MM/DD hh:mm:*
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Processing Mode	Processing mode used for	Available only for specific

	generation of the product.	user groups.

7.3 Bulk Order

7.3.1 GEO products

Selecting a GEO Bulk order USI MMI presents the following window:



Specific Product Order GEO Bulk Order

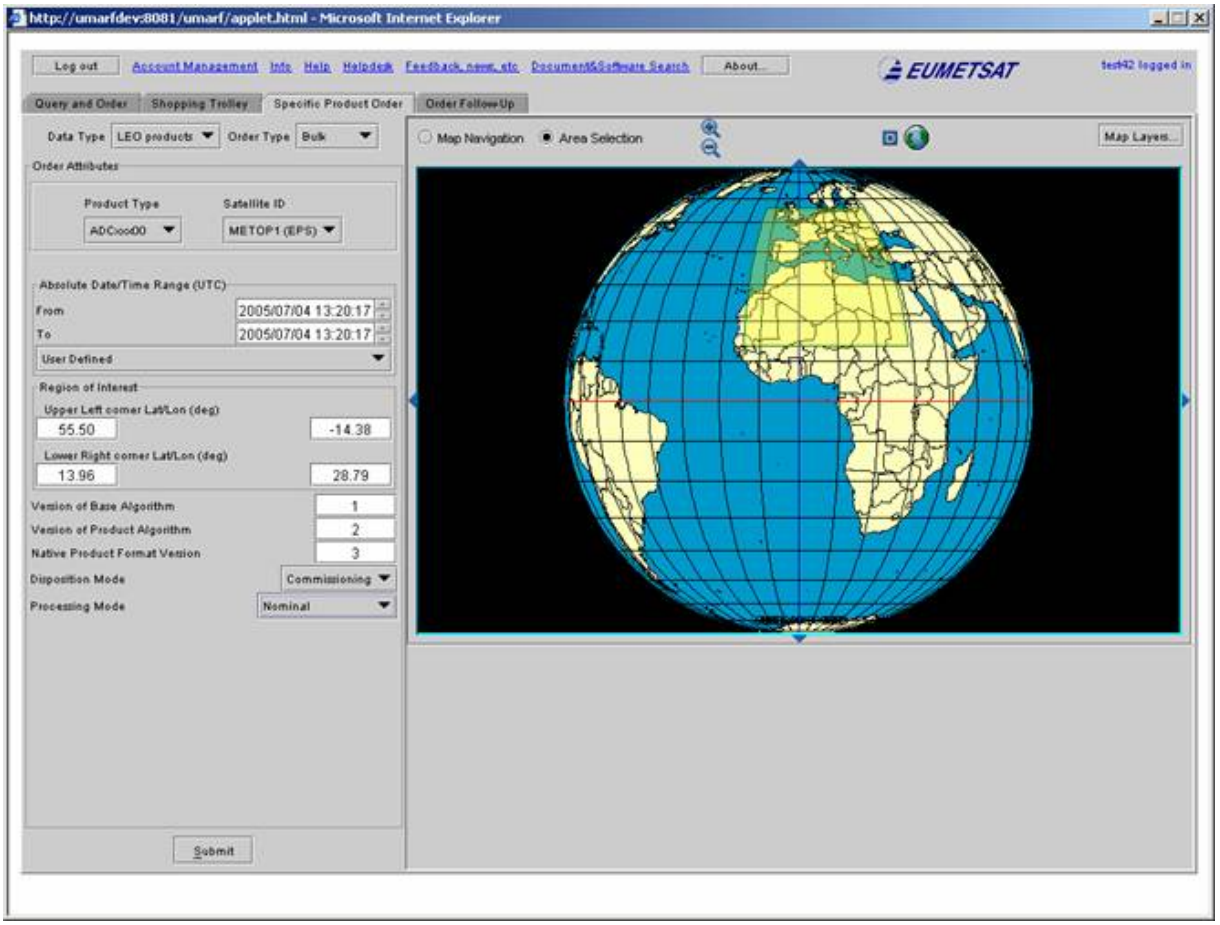
The order attributes for Bulk Order-GEO are the following:

Attribute	Description	Notes
Product Type	Date type.	
Satellite ID	Satellite.	
Absolute Date Time Range (UTC)	Date & Time range of interest (TOI) in absolute terms. A predefined set of user friendly ranges expressed in relative date&time references is provided.	Date format must be the following: YYYY/MM/DDd HH:mm:SS This attribute is editable only in User Defined mode.

Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.

7.3.2 LEO products

Selecting a LEO Bulk order USI MMI presents the following window:



Specific Product Order LEO Bulk Order

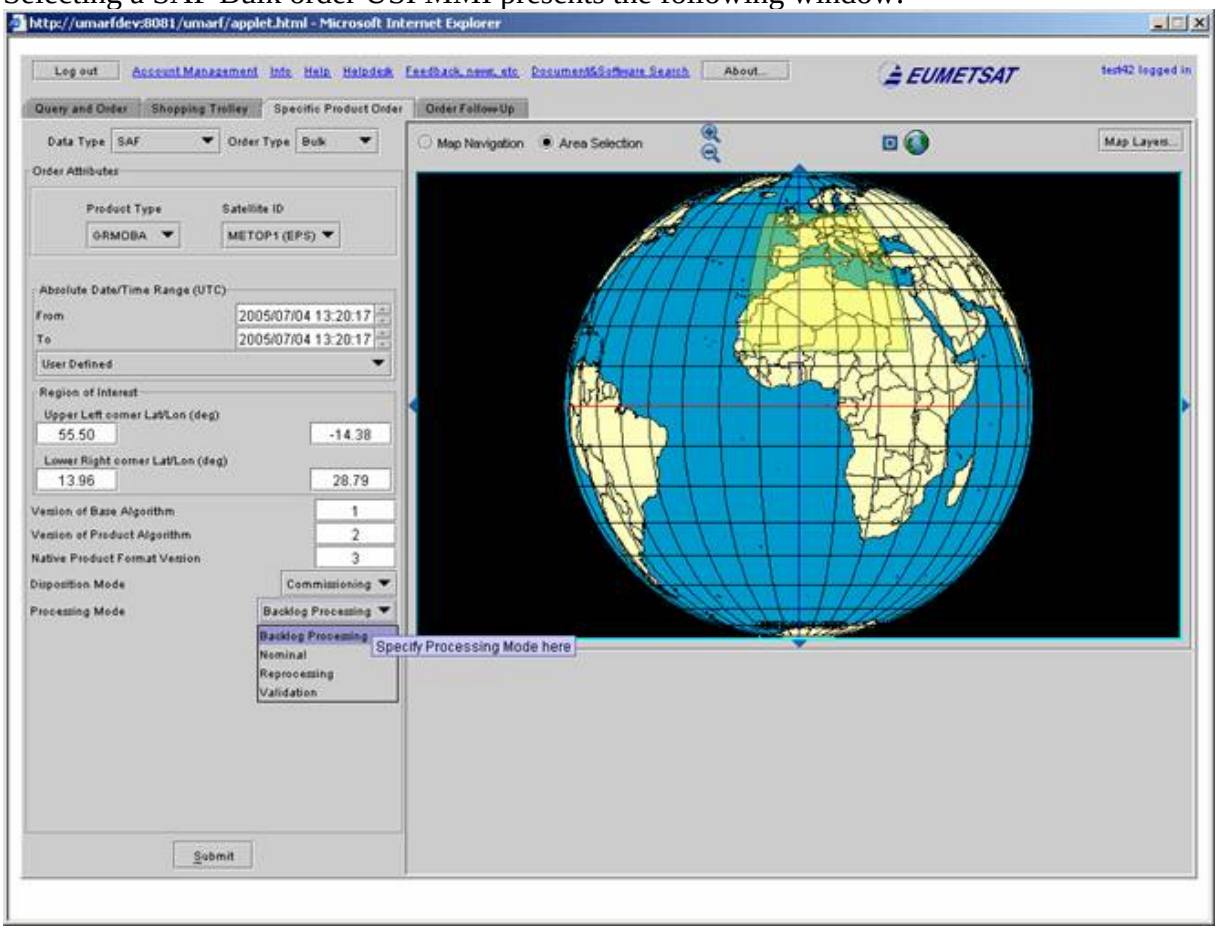
The order attributes for Bulk Order-LEO are the following:

Attribute	Description	Notes
Product Type	Date type.	
Satellite ID	Satellite.	
Absolute Date Time Range (UTC)	Date & Time range of interest (TOI) in absolute terms. A predefined set of user friendly ranges expressed in relative date&time references is provided.	Date format must be the following: YYYY/MM/DD HH:mm:SS This attribute is editable only in User Defined mode.

Region Of Interest	Upper Left and Lower Right coordinates of the region of interest. It can be filled manually or by using the Map tool as already described.	
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Disposition Mode	Disposition mode applied for product generation.	Available only for specific user groups.
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.

7.3.3 SAF products

Selecting a SAF Bulk order USI MMI presents the following window:



Specific Product Order SAF Bulk Order

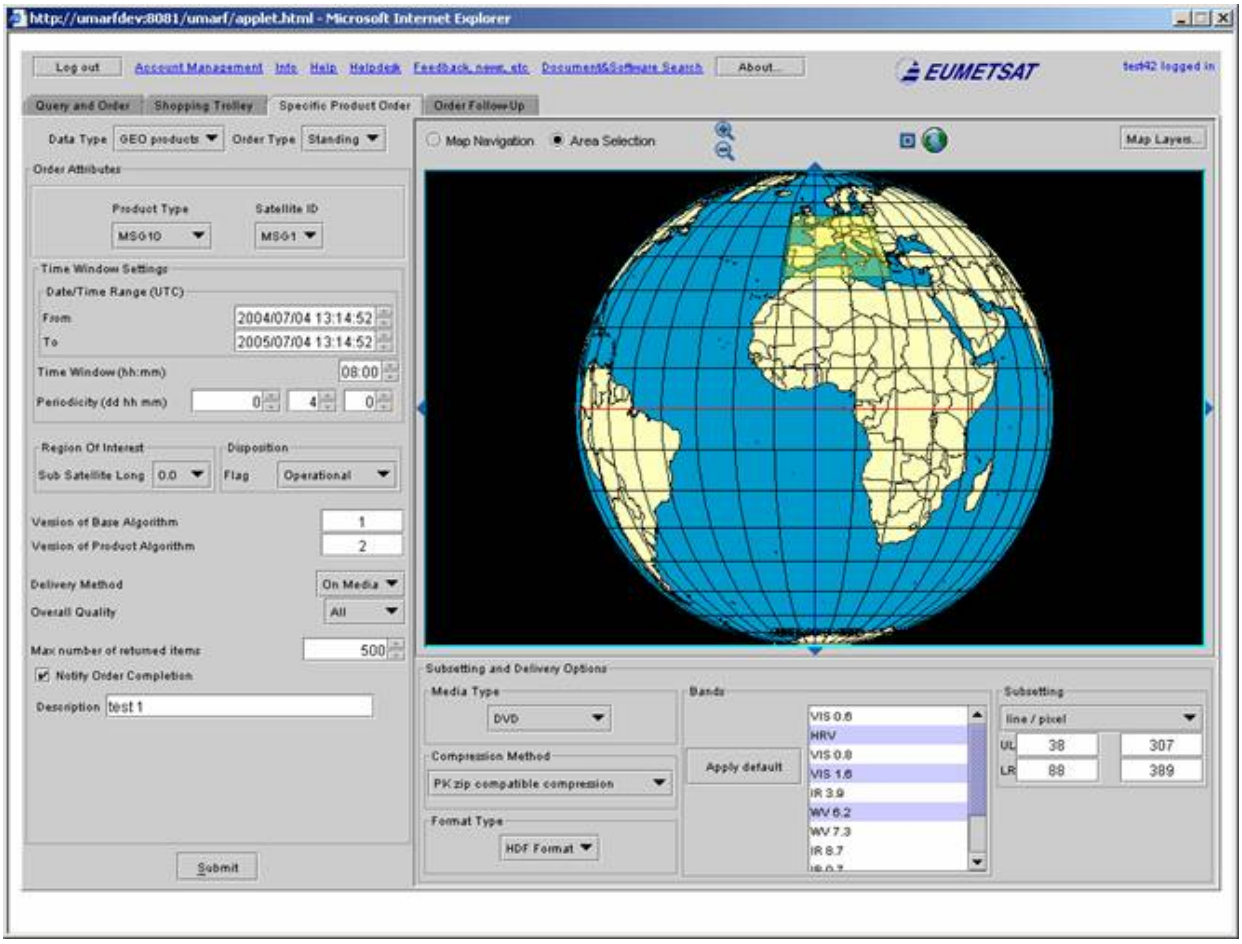
The order attributes for Bulk Order-SAF are the following:

Attribute	Description	Notes
Product Type	Date type.	
Satellite ID	Satellite.	
Absolute Date/Time Range (UTC)	Date & Time range of interest (TOI) in absolute terms. A predefined set of user friendly ranges expressed in relative date&time references is provided.	Date format must be the following: YYYY/MM/DD HH:mm:SS This attribute is editable only in User Defined mode.
Region Of Interest	Upper Left and Lower Right coordinates of the region of interest. It can be filled manually or by using the Map tool as already described.	
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Disposition Mode	Disposition mode applied for product generation.	Available only for specific user groups.
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.

7.4 Standing Order

7.4.1 GEO products

Selecting a GEO Standing order USI MMI presents the following window:



Specific Product Order GEO Standing Order

The order attributes for Standing Order-GEO are the following:

Attribute	Description	Notes
Product Type	Product type	
Satellite ID	Satellite	
Date/Time Range (UTC)	Date & Time range of validity for the Standing Order in UTC.	Date format must be the following: YYYY/MM/DD HH:mm:SS
Time Window	Duration of the time window.	Time Window format must be the following:hh:mm
Periodicity (DD HH MM)	Period between successive Time Windows expressed in Days, Hours, Minutes.	
Sub Satellite Long	Longitude of sub satellite point at start of acquisition.	
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used	Available only for specific

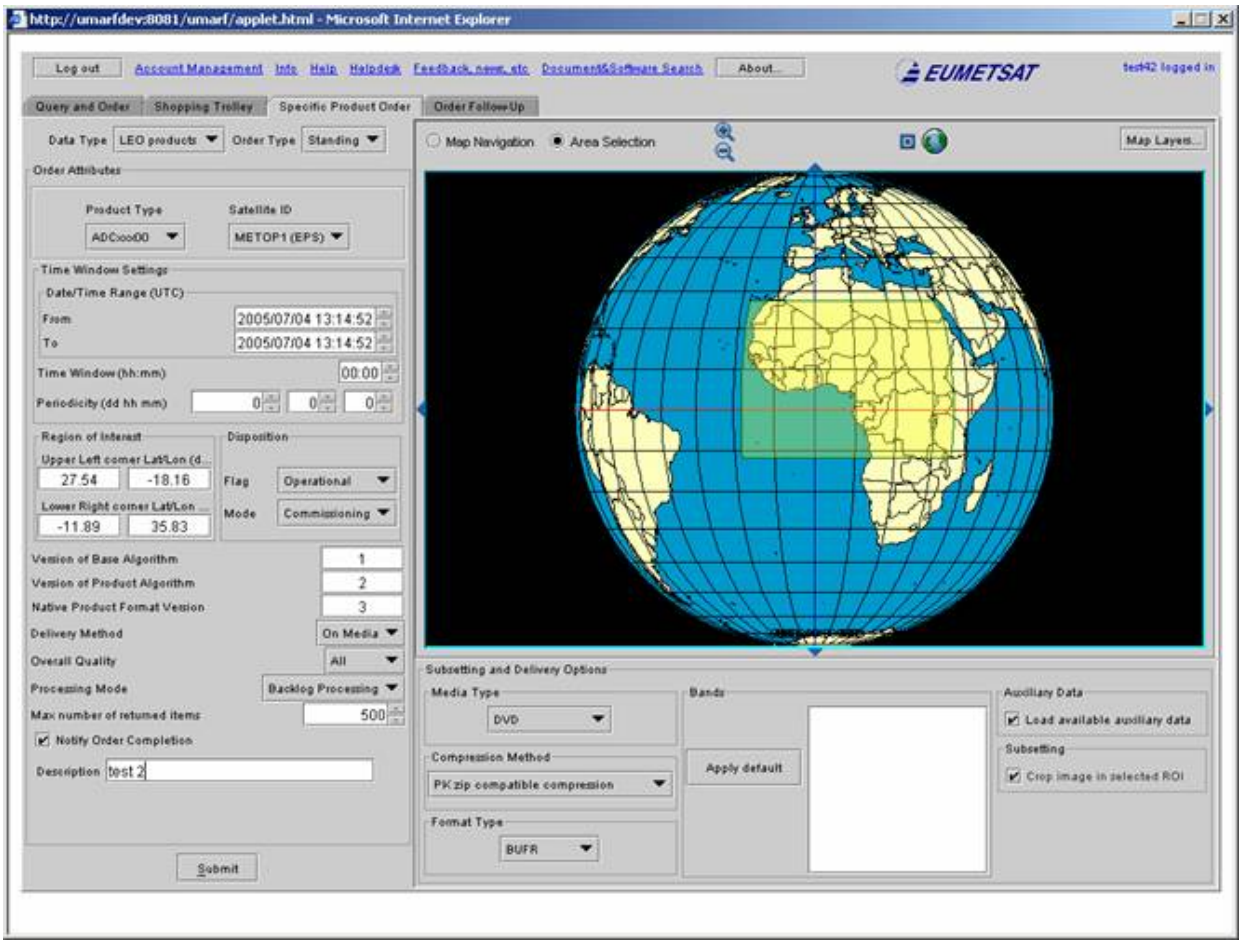
	to generate the product.	user groups.
Delivery Method	Type of delivery for the produced orders.	
Overall Quality	Overall quality of the product.	
Max. Num. Returned Items	Max number of items to be included in each order.	
Notify Order Completion	If to notify the user via e-mail about successful completion of the order.	
Description	Short description/title of the standing order for any future reference (i.e. Order Follow-Up).	

On the bottom-right side of the Order Attributes pane, a dedicated pane group together all the delivery and subsetting options for the products that will be included as items of the automatically generated orders.
Following table reports the list of attributes for the Subsetting and Delivery Options pane.

Attribute	**Description**	**Notes**
Media Type	Physical support to be used for delivery.	This selection is enabled only when the Delivery Method - On Media has been selected.
Compression Method	Method to be used for compressing data when delivering.	
Format Type	Format of the data to be delivered.	
Bands	Spectral bands for the specified product type.	
Subsetting	Units to be used for defining geo-spatial subsetting options.	
UL	Upper Left corner of the subsetting region.	Expressed in units specified by Subsetting. Content can be filled manually or using the Map.
LR	Lower Right corner of the subsetting region.	Expressed in units specified by ï¿½ubsetting Unitï¿½ Content can be filled manually or using the Map.

7.4.2 LEO products

Selecting a LEO Standing order USI MMI presents the following window:



Specific Product Order LEO Standing Order

The order attributes for Standing Order-LEO are the following:

Attribute	Description	Notes
Product Type	Product type.	
Satellite ID	Satellite.	
Time Window Settings (UTC)	Date & Time range of validity for the Standing Order in absolute terms.	Date format must be the following: YYYY/MM/DD HH:mm:SS
Time Window	Duration of the time window.	Time Window format must be the following: hh:mm
Periodicity (DD HH MM)	Period between successive Time Windows expressed in Days, Hours, Minutes.	
Region Of Interest	Upper Left and Lower Right coordinates of the region of	

	interest. It can be filled manually or by using the Map tool as already described.	
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Disposition Mode	Disposition mode applied for product generation.	Available only for specific user groups.
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Delivery Method	Type of delivery for the produced orders.	
Overall Quality	Overall quality of the product.	
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.
Max. Num. Returned Items	Max number of items to be included in each order.	
Notify Order Completion	If to notify the user via e-mail about successful completion of the order.	
Description	Short description/title of the standing order for any future reference (i.e. Order Follow-Up).	

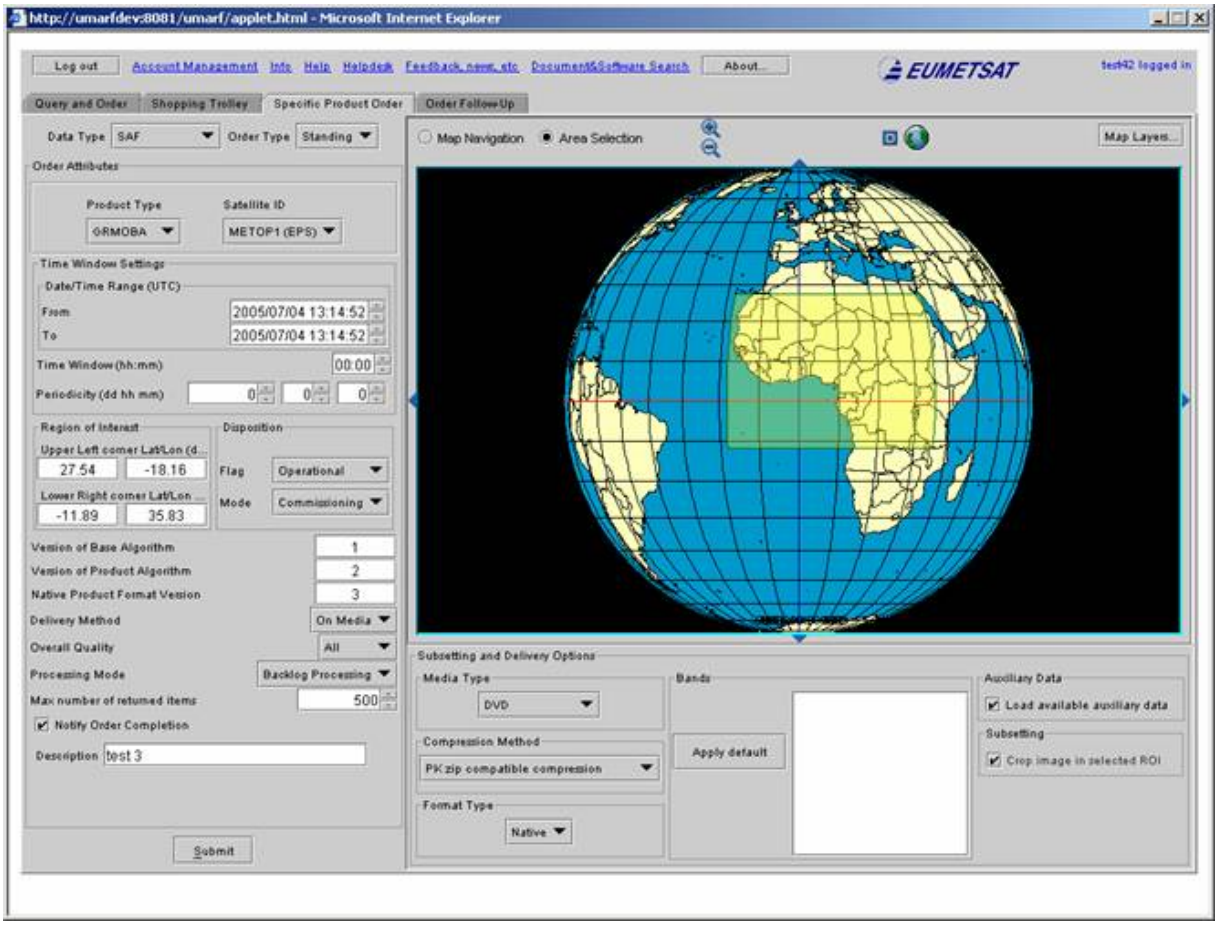
On the bottom-right side of the Order Attributes pane is a dedicated pane grouping together all the delivery and sub-setting options for the products that will be included as items of the automatically generated orders.

Attribute	**Description**	**Notes**
Media Type	Physical support to be used for delivery.	On line delivery. If Delivery Method is set to On Line all other available Media Types are not enabled.
Compression Method	Method to be used for compressing data when delivering.	
Format Type	Format of the data to be delivered.	
Bands	Spectral bands for the specified product type.	
Load available auxiliary data	Add the auxiliary data available for the products included in the generated order.	
Crop image in selected ROI	If selected the products included in	

	the generated order will be cropped to the specified ROI.	

7.4.3 SAF products

Selecting a SAF Standing order USI MMI presents the following window:



Specific Product Order SAF Standing Order

The order attributes for Standing Order-SAF are the following:

Attribute	Description	Notes
Product Type	Product type.	
Satellite ID	Satellite.	
Date/Time Range (UTC)	Date & Time range of validity for the Standing Order in UTC.	Date format must be the following: YYYY/MM/DD HH:mm:SS
Time Window	Duration of the time window.	Time Window format must be the following: hh:mm
Periodicity (DD HH MM)	Period between successive Time	

	Windows expressed in Days, Hours, Minutes.	
Region Of Interest	Upper Left and Lower Right coordinates of the region of interest. It can be filled manually or by using the Map tool as already described.	
Disposition Flag	Operational status of a product.	Available only for specific user groups.
Version of Base Algorithm	Version of the algorithm used to generate the parent product.	Available only for specific user groups.
Version of Product Algorithm	Version of the algorithm used to generate the product.	Available only for specific user groups.
Native Product Format Version	Data format of the product.	Available only for specific user groups.
Delivery Method	Type of delivery for the produced orders.	
Overall Quality	Overall quality of the product.	
Processing Mode	Processing mode used for generation of the product.	Available only for specific user groups.
Max. Num. Returned Items	Max number of items to be included in each order.	
Notify Order Completion	If to notify the user via e-mail about successful completion of the order.	
Description	Short description/title of the standing order for any future reference (i.e. Order Follow-Up).	

On the bottom-right side of the Order Attributes pane, a dedicated pane group together all the delivery and subsetting options for the products that will be included as items of the automatically generated orders.
Following table reports the list of attributes for the Subsetting and Delivery Options pane.

Attribute	**Description**	**Notes**
Media Type	Physical support to be used for delivery.	On line delivery. If Delivery Method is set to On Line all other available Media Types are not enabled.
Compression Method	Method to be used for compressing data when delivering.	
Format Type	Format of the data to be delivered.	
Bands	Spectral bands for the specified product type.	
Load available auxiliary data	If to add also the auxiliary data	

	available for the products included in the generated order.	
Crop image in selected ROI	If selected the products included in the generated order will be cropped to the specified ROI.	

7.5 Submitting a Direct Order

Step	Action	Result
1	Choose a data type and the Direct order type.	The corresponding order mask is loaded.
2	Fill the order attributes.	
3	Click on the Submit button.	The applet switches to the Shopping Trolley tab showing the ordered products.

7.6 Submitting a Bulk Order

Step	Action	Result
1	Choose a Data Type and the Order Type: Bulk.	The corresponding order mask is loaded.
2	Fill the order attributes.	
3	Click on the Submit button.	A dialog box is displayed showing the EULA page.
4	Click on the EULA window Accept button.	The Bulk Order Submitted window is displayed showing the order identifier.
5	Click on Bulk Order Submitted window OK button.	The Bulk Order Submitted window is closed.

The following figure shows an example of Bulk Order Submitted window:

U-MARF Info
Your order has been submitted.
To check the status of your order, please take note of the order ID and verify it on the Order Follow-Up panel.
The order ID is: 2057
OK

Bulk Order Submitted window

7.7 Submitting a Standing Order

Step	Action	Result
1	Choose a data type and the Standing order type.	The corresponding order mask is loaded.
2	Fill the order attributes.	
3	Click on the ï¿½ubmitï¿½button.	A dialog box is displayed showing the EULA page.
4	Click on EULA window Accept button.	The Standing Order Submitted window is displayed showing order identifier.
5	Click on Standing Order Submitted window OK button.	The Standing Order Submitted window is closed.

The following figure shows an example of Standing Order Submitted window:

U-MARF Info
Your order has been submitted.
To check the status of your order, please take note of the order ID and verify it on the Order Follow-Up panel.
The order ID is: 915
OK

Standing Order Submitted window

8 GLOSSARY

ACRONYM	MEANING
AVHRR	Advanced Very High Resolution Radiometer
CAT	U-MARF Catalogue Sub system
COTS	Commercial off the shelf
EPS	EUMETSAT Polar System
EULA	End User License Agreement
FTP	File Transer Protocol
GEO	Geostationary Orbit
HTML	HyperText Markup Language
LEO	Low Earth Orbit
MSG	Meteosat Second Generation
MTP	Meteosat Transition Program
ROI	Region Of Interest
SAF	Satellite Application facility
TBC	To Be Confirmed
TBD	To Be Defined
TOI	Time (range) Of Interest
U-MARF	Unified Meteorological Archiving and Retrieval Facility
URL	Uniform Resource Locator
USI	User Services Interface
UTC	Universal Coordinated Time